

URS Greiner

RECORD OF MEETING

C8
SUBJECT: C103353.00/G064197X; SCSPA Daniel Island Terminal EIS & Permits

DATE: 11 June 1997

RECORDED BY: Mark Easley

A. ATTENDEES Colleen Coogan, National Marine Fisheries Service
Protected Species Branch

B. DISCUSSION NOTES

Colleen and I met to discuss the Daniel Island project and potential concerns the NMFS may have with the project with respect to protected species. From this discuss the following issues were compiled.

- The relocation of the Wando River Channel and it's associated dredge work may impact turtle species. However, because the project is located in the upper section of the bay the impacts to turtles may be less than areas further down in the bay. She would like to know what methods will be used in the dredging operations. Colleen will contact the SCDHEC person to collect information on the frequency of turtles in the area and to discuss the potential impacts with them. She will also e-mail me the standard turtle conditions typically required of dredge projects.
- The deep water dredge disposal associated with the channel realignment may have an impact on whales due to the increase in ship traffic and dumping of materials. The project area (i.e., South Carolina) is a transit area for whales and she did not think that there would be major impacts. She would like to know what the increase in ship traffic associated with the dredge operations would be.
- The quality of the materials being dredged, and the methods to be used to maintain water quality during the dredging operations, could affect protected species. This may also be a concern which will need to be reviewed.
- Increased ship traffic associated with the terminal may have an affect on both turtles and whales. These impacts may be increased by the presence of larger ships (i.e., post panamax) at the Daniel Island facility. To assess this, she would like to have information on the projected increase in ship traffic due to the Daniel Island facility, the speeds at which the ships will be moving as they travel up the channel to the

facility, the sizes and drafts of the ships which will be using the facility, and the planned use of tugs in the area of the facility.

- Impacts to wetlands (i.e., Spartina marshes) adjacent to Daniel Island appear to be minimal based on the size of the project. However, we need to assess what affects these impacts may have on any protected species in the area. In addition to this, an assessment of the affects of the ships on the Spartina marshes along the channel may also need to be done (i.e., wave wash impacts).
- There does not appear to be a concern dealing with impacts to the shortnose sturgeon (*Acipenser brevirostrum*). Its primary habitat is located upstream of the project area. However, it will travel through the project site.

I informed her of the date and time of the Scoping Meeting. She said that there is a meeting the day before in Charleston and that she may stay an extra day and attend the meeting.

C. FOLLOW-UP ACTIVITIES

The following information needs to be provided to the NMFS when it becomes available.

- Information on the dredge methods to be used for the channel relocations, projected increases in ship traffic associated with the dredging operations, etc.
 - Information on the quality of the materials to be dredged and monitoring and sediment control methods to be used during the dredging operations.
 - Information on the numbers and sizes of the ships which will use the new facility, the travel speeds of the ships as they move up the channels to the facility, information on the use of tugs in the area of the facility, etc.
- c. Larry Setzler, SCSPA
Bill Fehring, URS Greiner



Fazley

United States Department of the Interior



FISH AND WILDLIFE SERVICE
P.O. Box 12559
217 Fort Johnson Road
Charleston, South Carolina 29422-2559

February 5, 1997

Dr. William Fehring
URS Greiner, Inc.
7650 W. Courtney Campbell Causeway
Tampa, Florida 33607-1462

Re: South Carolina State Ports Authority Railroad Access to Proposed
Daniel Island Terminal
FWS Log No. 4-6-97-136

Dear Dr. Fehring:

As per your request at our January 23, 1997 meeting, we are providing a list of the federally endangered and threatened species which potentially occur in Berkeley and Charleston counties, South Carolina to aid you in determining the impacts your project may have on protected species.

In-house surveys should be conducted by comparing the habitat requirements for the below listed species with available habitat types at the project site. Field surveys for the species should be performed if habitat requirements overlap with that available at the project site. Surveys for protected plant species must be conducted by a qualified biologist during the flowering or fruiting period(s) of the species. Surveys for the red-cockaded woodpecker should be conducted in accordance with the "Guidelines for preparation of biological assessments and evaluations for the red-cockaded woodpecker" by Gary Henry. A copy of these guidelines has been provided to you. Please notify this office with the results of any surveys for the below list of species and an analysis of the "effects of the action," as defined by 50 CFR 402.02 on any listed species including consideration of direct, indirect, and cumulative effects.

We also recommend you contact the S.C. Department of Natural Resources (SCDNR), Data Manager, Wildlife Diversity Section, Columbia, SC 29202, concerning known populations of federal and/or state endangered or threatened species, and other sensitive species in the project area. Additional habitat information may also be available from SCDNR. The National Marine Fisheries Service, 9721 Executive Center Drive North, St. Petersburg, FL 33702-2449 should be contacted for consultation on species under their jurisdiction.

Your interest in ensuring the protection of endangered and threatened species and our nation's valuable wetland resources is appreciated. If you have any questions please contact Ms. Lori Duncan of my staff at (803) 727-4707 ext. 21. In future correspondence concerning the project, please reference FWS Log No. 4-6-97-136.

Sincerely yours,



Roger L. Banks
Field Supervisor

RLB/LWD/km

cc: Tina Hadden, U.S. Army Corps of Engineers, Charleston, SC

***Key attached to the back of the list!

January 2, 1997

RARE, THREATENED, & ENDANGERED SPECIES OF SOUTH CAROLINA

ELCODE.....ELCLASS..STATUS...GRANK...SRANK...NAME.....COMNAME.....

ANIMALS--VERTEBRATE

ABNKC12040	A	SC	G4	S7	ACCIPITER COOPERII	COOPER'S HAWK
AFCAA01010	A	FE	G3	S3	ACIPENSER BREVIROSTRUM	SHORTNOSE STURGEON
AABC01012	A	SC	G5T5	S5	ACRIS CREPITANS CREPITANS	NORTHERN CRICKET FROG
ABPBX91050	A	SC	G3	S3	AIMOPHILA AESTIVALIS	BACHMAN'S SPARROW
AFCCB06040	A	SC	G5	S?	AMBLOPLITES RUPESTRIS	ROCK BASS
AAAAA01030	A	SE	G2G3	S1	AMBYSTOMA CINGULATUM	FLATWOODS SALAMANDER
AAAAAA01146	A	SC	G5T5	S2S3	AMBYSTOMA TIGRINUM TIGRINUM	EASTERN TIGER SALAMANDER
AAAAD01010	A	SC	G3G4	S1	ANEIDES AENEUS	GREEN SALAMANDER
ARAAG01010	A	SC	G5	S?	APALONE FEROX	FLORIDA SOFTSHELL
AMAGJ01020	A	FE	G2	S?	BALAENA MYSTICETUS	BOWHEAD WHALE
AMAGH01030	A	SC	G5	S?	BALAEOPTERA ACUTOROSTRATA	MINKE WHALE
AMAGH01020	A	FE	G3	S1	BALAEOPTERA BOREALIS	SEI WHALE
AMAGH01050	A	SC	G4	S?	BALAEOPTERA EDENI	BRYDE'S WHALE
AMAGH01040	A	FE	G2	S?	BALAEOPTERA MUSCULUS	BLUE WHALE
AMAGH01010	A	FE	G3	S?	BALAEOPTERA PHYSALUS	FIN WHALE
ABNYF13040	A	FE	GX	SX	CAMPEPHILUS PRINCIPALIS	IVORY-BILLED WOODPECKER
ARAAA01010	A	FT	G3	S3	CARETTA CARETTA	LOGGERHEAD
ABNNB03070	A	FT	G3	S?	CHARADRIUS MELODUS	PIPING PLOVER
ABNNB03040	A	ST	G5	S?	CHARADRIUS WILSONIA	WILSON'S PLOVER
ARAAA02010	A	FT/SE	G3	S?	CHELONIA MYDAS	GREEN TURTLE
ARAAD02010	A	SC	G5	S5	CLEMMYS GUTTATA	SPOTTED TURTLE
ARAAD02040	A	ST	G3	S1	CLEMMYS MUhlenbergii	BOG TURTLE
AMAFF09020	A	SC	G5	S2S3	CLETHRIONOMYS GAPPERI	SOUTHERN RED-BACKED VOLE
AMAFF09024	A	SC	G5T4	S2S3	CLETHRIONOMYS GAPPERI CAROLINENSIS	CAROLINA RED-BACKED VOLE
ABNPB06020	A	ST	G5	S?	COLUMBINA PASSERINA	COMMON GROUND-DOVE
AMABB05010	A	SC	G5	S3?	CONDYLURA CRISTATA	STAR-NOSED MOLE
AMACC08020	A	SE	G3G4	S2?	CORYNORHINUS RAFINESQUII	RAFINESQUE'S BIG-EARED BAT
ARADE02040	A	SC	G5	S?	CROTALUS HORRIDUS	TIMBER RATTLESNAKE
AAAAC01010	A	SC	G4	S?	CRYPTOBRANCHUS ALLEGANIENSIS	HELLBENDER
ABPBX03180	A	FE	G1	SA	DENDROICA KIRTLANDII	KIRTLAND'S WARBLER
ABPBX03100	A	SC	G5	S4	DENDROICA VIRENS	BLACK-THROATED GREEN WARBLER
ARAAC01010	A	FE	G3	SA	DERMOCHELYS CORIACEA	LEATHERBACK
AAAAD03010	A	SC	G4	S?	DESMOGNATHUS AENEUS	SEEPAGE SALAMANDER
ARADB11011	A	FT/SE	G4T3	S?	DRYMARCHON CORAIS COUPERI	EASTERN INDIGO SNAKE
ABNKC04010	A	SE	G5	S2	ELANOIDES FORFICATUS	AMERICAN SWALLOW-TAILED KITE
AFCQB09050	A	SC	G2	S1	ELASSOMA BOEHLKEI	CAROLINA PYGMY SUNFISH
AFCQB09060	A	SC	G2G3	S?	ELASSOMA OKATIE	BLUEBARRED PYGMY SUNFISH
ARAAA03010	A	FE	G3	S?	ERETMOCHELYS IMBRICATA	HAWKSBILL
AFCQC02150	A	ST	G3	S?	ETHEOSTOMA COLLIS	CAROLINA DARTER
AFCQC02250	A	SC	G5	S1	ETHEOSTOMA FLABELLARE	FANTAIL DARTER
AFCQC02320	A	SC	G4G5	S4	ETHEOSTOMA HOPKINSI	CHRISTMAS DARTER
AFCQC02870	A	SC	G5	S1?	ETHEOSTOMA ZONALE	BANDED DARTER
AMAGJ02010	A	FE	G1	SA	EUBALAENA GLACIALIS	BLACK RIGHT WHALE
ARACH01010	A	ST	G5	S1	EUMECES ANTHracinus	COAL SKINK
ARACH01012	A	ST	G5T5	S?	EUMECES ANTHracinus PLUVIALIS	SOUTHERN COAL SKINK
ABNKD06071	A	FE	G4T4	S?	FALCO PEREGRINUS ANATUM	AMERICAN PEGREGRINE FALCON
ABNKD06074	A	FT/SE	G4T4	S?	FALCO PEREGRINUS TUNDRIUS	ARCTIC PEGREGRINE FALCON
AMAJH01020	A	SC	G5	SH	FELIS CONCOLOR	MOUNTAIN LION
AMAJH01022	A	FE	G5TH	S1	FELIS CONCOLOR COUGAR	EASTERN COUGAR
AMAGE11010	A	SC	G4	S?	FERESA ATTENUATA	PYGMY KILLER WHALE
AFCNB04060	A	SC	G5	S1	FUNDULUS DIAPHANUS	BANDED KILLIFISH
AMAGE10020	A	SC	G5	S?	GLOBICEPHALA MACrorhynchus	SHORT-FINNED PILOT WHALE
AMAGE10010	A	SC	G5	S?	GLOBICEPHALA MELAS	LONG-FINNED PILOT WHALE
ARAAF01030	A	SE	G3	S1	GOPHERUS POLYPHEMUS	GOPHER TORTOISE

RARE, THREATENED, & ENDANGERED SPECIES OF SOUTH CAROLINA

Key.....	EL	CLASS	STATUS..	GRANK..	SRANK..	NAME.....	COMMON.....
AMAGED08010	A	SC	G5	S?		GRAMPUS GRISEUS	GRAMPUS
ABNKC10010	A	FT	G4	S2		HALIAEETUS LEUCOCEPHALUS	BALD EAGLE
ARADB17030	A	SC	G4G5	S?		HETERODON SIMUS	SOUTHERN HOGNOSE SNAKE
AAABC02010	A	ST	G4	S2S3		HYLA ANDERSONII	PINE BARRENS TREEFROG
AAABC02030	A	SC	G5	S5		HYLA AVIVOCAS	BIRD-VOICED TREEFROG
AFCJC06020	A	SC	G5	S?		HYPENTELIUM NIGRICANS	NORTHERN HOG SUCKER
ABNKC09010	A	SC	G5	S4		ICTINIA MISSISSIPPIENSIS	MISSISSIPPI KITE
ARAAE01010	A	SC	G5	S?		KINOSTERNON BAURII	STRIPED MUD TURTLE
AMAGB02010	A	SC	G5	SA		KOGIA BREVICEPS	PYGMY SPERM WHALE
AMAGB02020	A	SC	G4	S?		KOGIA SIMUS	DWARF SPERM WHALE
ARADB19050	A	SC	G5	S2		LAMPROPELTIS TRIANGULUM	MILK SNAKE
ABPBR01030	A	SC	G4G5	S3		LANIUS LUDOVICIANUS	LOGGERHEAD SHRIKE
AMACC05030	A	SC	G5	S?		LASIURUS CINEREUS	HOARY BAT
AMACC05040	A	SC	G4G5	S?		LASIURUS INTERMEDIUS	NORTHERN YELLOW BAT
ARAAA04010	A	FE	G1	SA		LEPIDOCHELYS KEMPII	KEMP'S RIDLEY
AAAAA10010	A	SC	G4	S2		LEUROGNATHUS MARMORATUS	SHOVELNOSE SALAMANDER
ABPBX09010	A	SC	G3G4	S4		LIMNOTHLYPIS SWAINSONII	SWAINSON'S WARBLER
AFCJB51050	A	SC	G5	S?		LUXILUS COCCOGENIS	WARPINT SHINER
AMAGH02010	A	FE	G3	S1		MEGAPTERA NOVAEANGLIAE	HUMPBACK WHALE
ABNYF04040	A	SC	G5	S?		MELANERPES ERYTHROCEPHALUS	RED-HEADED WOODPECKER
AMAGA02020	A	SC	G4	S?		MESOPLODON DENSIROSTRIS	DENSE-BEAKED WHALE
AMAGA02040	A	SC	G3	S?		MESOPLODON MIRUS	TRUE'S BEAKED WHALE
AMAFF11010	A	SC	G5	S4		MICROTUS PENNSYLVANICUS	MEADOW VOLE
ARADC02010	A	SC	G5	S2		MICRURUS FULVIA	EASTERN CORAL SNAKE
AMAJF02020	A	SC	G5	S?		MUSTELA NIVALIS	LEAST WEASEL
ABNGF02010	A	FE	G4	S1S2		MYCTERIA AMERICANA	WOOD STORK
AMACC01030	A	ST	G3	S2S3		MYOTIS AUSTRORIPARIUS	SOUTHEASTERN MYOTIS
AMACC01130	A	ST	G3	S1		MYOTIS LEIBII	EASTERN SMALL-FOOTED MYOTIS
AMACC01010	A	SC	G5	S?		MYOTIS LUCIFUGUS	LITTLE BROWN MYOTIS
AMACC01150	A	SC	G4	S3		MYOTIS SEPTENTRIONALIS	NORTHERN MYOTIS
AMACC01100	A	FE	G2	S1		MYOTIS SODALIS	INDIANA MYOTIS
AMAFH02010	A	SC	G5	S4?		NAPAEZAPUS INSIGNIS	WOODLAND JUMPING MOUSE
AMAFF08010	A	SC	G5	S3S4		NEOTOMA FLORIDANA	EASTERN WOODRAT
AMAFF08013	A	SC	G5T5	S3S4		NEOTOMA FLORIDANA FLORIDANA	EASTERN WOODRAT
AMAFF08015	A	SC	G5T5	S3S4		NEOTOMA FLORIDANA HAEMATOIREIA	SOUTHERN APPALACHIAN WOODRAT
ARADB22010	A	SC	G5	S2		NERODIA CYCLOPION	GREEN WATER SNAKE
ARADB22080	A	SC	G5	S2		NERODIA FLORIDANA	FLORIDA GREEN WATER SNAKE
AFCJB28180	A	SC	G5	S?		NOTROPIS BIFRENATUS	BRIDLED SHINER
AFCJB28330	A	SC	G4	S1?		NOTROPIS CHILITICUS	REDLIP SHINER
AFCJB28600	A	SC	G5	S?		NOTROPIS LEUCIODUS	TENNESSEE SHINER
AFCJB28900	A	SC	G4	S?		NOTROPIS SPECTRUNCULUS	MIRROR SHINER
ABNNF07010	A	FE	G1	SX		NUMENIUS BOREALIS	ESKIMO CURLEW
AMALC02023	A	SC	G5T1Q	S?		ODOCOILEUS VIRGINIANUS HILTONENSIS	HILTON HEAD DEER
AMALC02025	A	SC	G5THQ	S?		ODOCOILEUS VIRGINIANUS TAURINSLAUE	BULLS ISLAND DEER
AMALC02026	A	SC	G5THQ	S?		ODOCOILEUS VIRGINIANUS VENATORIA	HUNTING ISLAND DEER
ARACB02020	A	SC	G4	S1S2		OPHISaurus COMPRESSUS	ISLAND GLASS LIZARD
ARACB02040	A	SC	G3	S?		OPHISaurus MIMICUS	MIMIC GLASS LIZARD
AMABB03010	A	SC	G5	S?		PARASCALOPS BREWERI	HAIRY-TAILED MOLE
ABNFC01020	A	SC	G4	S1S2		PELECANUS OCCIDENTALIS	BROWN PELICAN
AMAJG01010	A	SC	G5	SA		PHOCA VITULINA	HARBOR SEAL
AMAGC01010	A	FE	G3	S1		PHYSETER MACROCEPHALUS	SPERM WHALE
ABNYF07060	A	FE	G3	S2		PICOIDES BOREALIS	RED-COCKADED WOODPECKER
ARADB26012	A	SC	G5T4	S?		PITUOPHIS MELANOCEPHALUS MELANOCEPHALUS	NORTHERN PINE SNAKE
ARADB26013	A	SC	G5T3?	S2		PITUOPHIS MELANOCEPHALUS MUGITUS	FLORIDA PINE SNAKE

RARE, THREATENED, & ENDANGERED SPECIES OF SOUTH CAROLINA

Key..... EL CLASS STATUS.. GRANK.. SRANK.. NAME..... COMMONNAME.....

ABNGE02010	A	ST	G5	S?	PLEGADIS FALCINELLUS	GLOSSY IBIS
AAAAD12210	A	SE	G4	S2	PLETHODON WEBSTERI	WEBSTER'S SALAMANDER
AAABC05070	A	SC	G5	S\$4	PSEUDACRIS TRISERIATA	WESTERN CHORUS FROG
AAAAG01010	A	ST	G5	S2	PSEUDOBANCHUS STRIATUS	DWARF SIREN
AAAAD13012	A	SC	G5T4	S\$4	PSEUDOTRITON MONTANUS FLAVISSIMUS	GULF COAST MUD SALAMANDER
AAABH01270	A	SC	G4	S1	RANA CAPITO	GOPHER FROG
AAABH01160	A	SC	G5	S?	RANA PALUSTRIS	PICKEREL FROG
AAABH01200	A	SC	G5	S3	RANA SYLVATICA	WOOD FROG
AFCJB37010	A	SC	G5	S1	RHINICHTHYS ATRATULUS	BLACKNOSE DACE
AMAFB07040	A	SC	G5	S4	SCIURUS NIGER	EASTERN FOX SQUIRREL
ARADB31010	A	SC	G5	S?	SEMINATRIX PYGAEA	BLACK SWAMP SNAKE
AFCJB41030	A	ST	G3	S2	SEMOTILUS LUMBEE	SANDHILLS CHUB
AMABA01010	A	SC	G5	S?	SOREX CINEREUS	CINEREUS OR MASKED SHREW
AMABA01180	A	SC	G5	S4	SOREX FUMEUS	SMOKY SHREW
AMABA01250	A	SC	G5	S\$4	SOREX HOYI	PYGM SHREW
AMAJF05010	A	SC	G5	S4	SPILOGALE PUTORIUS	EASTERN SPOTTED SKUNK
AMAGE01010	A	SC	G5	S?	STENELLA ATTENUATA	PANTROPICAL SPOTTED DOLPHIN
AMAGE01050	A	SC	G5	S?	STENELLA COERULEOALBA	STRIPED DOLPHIN
AMAGE01060	A	SC	G5	S4	STENELLA FRONTALIS	ATLANTIC SPOTTED DOLPHIN
AMAGE01030	A	SC	G5	S4	STENELLA LONGIROSTRIS	SPINNER DOLPHIN
ABNNM08100	A	ST	G4	S3	STERNA ANTILLARUM	LEAST TERN
AMAEBO1080	A	SC	G5	S3	SYLVILAGUS AQUATICUS	SWAMP RABBIT
AMAEBO1090	A	SC	G4	S2?	SYLVILAGUS OBSCURUS	APPALACHIAN COTTONTAIL
AMAFB08010	A	SC	G5	S3?	TAMIASCIURUS HUDSONICUS	RED SQUIRREL
ABPBG07010	A	ST	G4	S1?	THRYOMANES BEWICKII	BEWICK'S WREN
AMAKA01010	A	FE	G2?	S1S2	TRICHECHUS MANATUS	MANATEE
AMAGE04010	A	SC	G5	S4	TURSIOPS TRUNCATUS	BOTTLE-NOSED DOLPHIN
ABNSA01010	A	SC	G5	S4	TYTO ALBA	BARN-OWL
AMAJB01010	A	SC	G5	S?	URSUS AMERICANUS	BLACK BEAR
ABPBX01010	A	FE	GH	SX	VERMIVORA BACHMANII	BACHMAN'S WARBLER
AMAFH01010	A	SC	G5	S?	ZAPUS HUDSONIUS	MEADOW JUMPING MOUSE
AMAGA03010	A	SC	G4	S?	ZIPHIA CAVIROSTRIS	GOOSE-BEAKED WHALE

ANIMALS--INVERTEBRATE

IITRI1H050	I	SC	G?	S?	AGARODES GRISEUS	caddisfly
IMBIV02100	I	SC	G3	S?	ALASMIDONTA VARICOSA	
IMBIV04040	I	SC	G3G4	S?	ANODONTA COUPERIANA	
ICMAL50040	I	SC	G1	S1	DISTOCAMBARUS YOUNGINERI	
IMGASK2180	I	SC	G?	S?	ELIMIA CATENARIA	
IMBIV14070	I	SC	G4	S?	ELLIPTIO CONGARAEA	
IMBIV14140	I	SE	G1	S?	ELLIPTIO FRATERNA	
IMBIV14180	I	SC	G3	S?	ELLIPTIO LANCEOLATA	
IMBIV17090	I	SE	G2	S?	FUSCONIA MASONI	
IMBIV21050	I	SC	G4	S?	LAMPSILIS CARIOSA	
IMBIV21200	I	SC	G3	S?	LAMPSILIS SPLENDIDA	
IMBIV22040	I	FE	G1	S1	LASMIGONA DECORATA	
IIDD026070	I	SC	G2G3	S?	MACROMIA MARGARITA	
IITRI05010	I	SC	G1G3	S1S3	POLYCENTROPUS CARLSONI	
IITRIA4010	I	SC	G?	S?	PSEUDOGOERA SINGULARIS	
IITRI02020	I	SC	G?	S?	PSILOTRETA FRONTALIS	
IMBIV54010	I	SC	G5	S?	PYGANODON CATARACTA	
ITUNI15010	I	SC	G?	S?	SIGMORIA ARCUATA	
ITUNI15020	I	SC	G?	S?	SIGMORIA MACRA	

RARE, THREATENED, & ENDANGERED SPECIES OF SOUTH CAROLINA

Key..... EL CLASS STATUS.. GRANK.. SRANK.. NAME..... COMNAME.....

ITUNI15030	I	SC	G?	S?	SIGMORIA QUADRATA	A MILLIPEDE
ITUNI15040	I	SC	G?	S?	SIGMORIA ROBUSTA	A MILLIPEDE
ITUNI15050	I	SC	G?	S?	SIGMORIA SHELFORDI	A MILLIPEDE
ILARA08030	I	SC	G3	S?	SPHODROS COYLEI	
IMBI1V42030	I	SC	G5	S?	STROPHITUS UNDULATUS	SQUAWFOOT
II0D080110	I	SC	G3	S1S3	STYLURUS TOWNESI	TOWNES'CLUBTAIL
IMBI1V43070	I	SC	G3	S1S3	TOXOLASMA PULLUS	SAVANNAH LILLIPUT
IMBI1V55010	I	SC	G5	S?	UTTERBACKIA IMBECELLIS	PAPER PONDShell
IMBI1V47040	I	SC	G4	S?	VILLOSA CONSTRICTA	NOTCHED RAINBOW
IMBI1V47190	I	SC	G3G4	S?	VILLOSA DELUMBIS	EASTERN CREEKSHELL
IMBI1V47170	I	SC	G4Q	S?	VILLOSA VIBEX	SOUTHERN RAINBOW
IIIR178030	I	SC	G?	S?	WORMALDIA THYRIA	<i>cadastly</i>

PLANTS--VASCULAR

PDACE010C0	P	SC	G5	S1S2	ACER PENNSYLVANICUM	STRIPED MAPLE
PDRCN010AO	P	SC	G4	S2	ACONITUM UNCIATUM	BLUE MONKSHOOD
PDHPC01050	P	RC	G3?	S1	AESCRUS PARVIFLORA	SMALL-FLOWERED BUCKEYE
PDSCR01020	P	SC	G3G4	S?	AGALINIS APHYLLA	COASTAL PLAIN FALSE-FOXGLOVE
PDSCR01130	P	SC	G3	S1	AGALINIS AURICULATA	EARLEAF FOXGLOVE
PDSCR010G0	P	SC	G4?	S?	AGALINIS LINIFOLIA	FLAX LEAF FALSE-FOXGLOVE
PDSCR010HO	P	SC	G5	S?	AGALINIS MARITIMA	SALT-MARSH FALSE-FOXGLOVE
PDERI1R010	P	SC	G4G5	S1	AGARISTA POPULIFOLIA	CAROLINA DOG-HOBBLE
PDROS03040	P	NC	G3	S1	AGRIMONIA INCISA	INCISED GROOVEBUR
PDROS03070	P	SC	G5	S1	AGRIMONIA PUBESCENS	SOFT GROOVEBUR
PMILIL01050	P	SC	G4G5	S?	ALETRIS OBOVATA	WHITE COLICROOT
PMILIL020J0	P	SC	G5	S?	ALLIUM CERNUUM	NODDING ONION
PMILIL020PO	P	SC	G3G4	S?	ALLIUM CUTHEBERTII	STRIPED GARLIC
PDAMA04020	P	FT	G2	S1	AMARANTHUS PUMILUS	SEABEACH AMARANTH
PDFAB08052	P	SC	G3T2	S?	AMORPHA GEORGIANA VAR GEORGIANA	GEORGIA LEADPLANT
PDFAB08060	P	SC	G4?	S?	AMORPHA GLABRA	SMOOTH INDIGOBUSH
PDFAB080E0	P	SC	G3	S1	AMORPHA SCHWERINII	SCHWERIN INDIGOBUSH
PDSCR02010	P	FT	G2	S1	AMPHIANTHUS PUSILLUS	POOL SPRITE
PMPOAOB010	P	SC	G4	S?	AMPHICARPUM MUEHLNERBERGIANUM	BLUE MAIDEN-CANE
PMPOAOCCQ2	P		G5T3T4		ANDROPOGON GYRANS VAR STENOPHYLLUS	
PMPOAOCC0D0	P	SC	G4?	S?	ANDROPOGON MOHRII	BROOMSEDGE
PDRCN04010	P	SC	G4?	S?	ANEMONE BERLANDIERI	SOUTHERN THIMBLE-WEED
PDRCN04030	P	SC	G5	SH	ANEMONE CAROLINIANA	CAROLINA ANEMONE
PMPOAODD010	P	SC	G5	S?	ANTHAENANTIA RUFA	PURPLE SILKSCALE
PDBRA06170	P	SC	G3G4	S1	ARABIS MISSOURIENSIS	MISSOURI ROCK-CRESS
PMRC04010	P	RC	G4	S1	ARETHUSA BULBOSA	BOG ROSE

RARE, THREATENED, & ENDANGERED SPECIES OF SOUTH CAROLINA

Key.....	EL CLASS	STATUS..	GRANK..	SRANK..	NAME.....	COMMON.....
PMPOAOK090	P	SC	G4?	S2	ARISTIDA CONDENSATA	PIEDMONT THREE-AWNED GRASS
PDARIO10B0	P	SC	G5	S2	ARISTOLOCHIA MACROPHYLLA	PIPEVINE
PDARIO10J0	P	SC	G5	S2	ARISTOLOCHIA TOMENTOSA	WOOLLY DUTCHMAN'S-PIPE
PDASCO21E0	P	RC	G3?	S1	ASCLEPIAS PEDICELLATA	SAVANNAH MILKWEED
PPASP02050	P	RC	G4	S1	ASPLENIUM BRADLEYI	BRADLEY'S SPLEENWORT
PPASP020J0	P	NC	G2Q	S1	ASPLENIUM HETERORESILIENS	WAGNER'S SPLEENWORT
PPASP020T0	P	RC	G4	S1	ASPLENIUM MONANTHES	SINGLE-SORUS SPLEENWORT
PPASP02100	P	SC	G4	S1	ASPLENIUM PINNATIFIDUM	LOBED SPLEENWORT
PPASP02170	P	SC	G5	S1S2	ASPLENIUM RESILIENS	BLACK-STEM SPLEENWORT
PPASP02180	P	SC	G5	S2	ASPLENIUM RHIZOPHYLLUM	WALKING-FERN SPLEENWORT
PPASP021K0	P	SC	G5	S?	ASPLENIUM TRICHOMANES	MAIDENHAIR SPLEENWORT
PDASTOT070	P	NC	G3	S1	ASTER AVITUS	ALEXANDER'S ROCK ASTER
PDASTOT180	P	SC	G2G3	S?	ASTER GEORGIANUS	GEORGIA ASTER
PDASTOT1N0	P	SC	G5	S?	ASTER LAEVIS	SMOOTH BLUE ASTER
PDASTOT200	P	SC	G5	S?	ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER
PDASTOT340	P	SC	G5	S?	ASTER SPECTABILIS	SHOWY ASTER
PDFABOF580	P	SC	G3	S?	ASTRAGALUS MICHauxII	SANDHILLS MILKVETCH
PDFABOF9F0	P	SC	G4	S?	ASTRAGALUS VILLOSUS	A MILK-VETCH
PDSCR0620	P	SC	G3G5Q	S1	BACOPA CYCLOPHYLLO	COASTAL-PLAIN WATER-HYSSOP
PDASTO2020	P	SC	G2G3	S?	BALDUINA ATROPURPUREA	PURPLE BALDUINA
PDASTO2030	P	SC	G4	S?	BALDUINA UNIFLORA	ONE-FLOWER BALDUINA
PDFA80G0B0	P	SC	G4?	S?	BAPTISIA LANCEOLATA	LANCE-LEAF WILD-INDIGO
PDBET02010	P	SC	G5	S1	BETULA ALLEGHANIENSIS	YELLOW BIRCH
PPDH01090	P	SC	G4?	S?	BOTRYCHIUM LUNARIOIDES	WINTER GRAPE-FERN
PDSAX04010	P	SC	G4	S1	BOYKINIA ACONITIFOLIA	BROOK SAXIFRAGE
PMBUR02010	P	SC	G4G5	S?	BURMANNIA BIFLORA	NORTHERN BURMANNIA
PMPOA18020	P	NC	G4	S?	CALAMOVILFA BREVIPILIS	PINE-BARRENS REED-GRASS
PMOROC0C010	P	SC	G5?	S?	CALOPOGON BARBATUS	BEARDED GRASS-PINK
PMILLOE050	P	RC	G4G5	S2	CAMASSIA SCILLOIDES	WILD HYACINTH
PDCAUOU010	P	SC	G5	S1	CAMPANULA AMERICANA	TALL BELLFLOWER
PMCAN01030	P	SC	G5?	S4	CANNA FLACCIDA	BANDANA-OF-THE-EVERGLADES
PDBRAOK070	P	SC	G2	S?	CARDAMINE CLEMATITIS	MOUNTAIN BITTER CRESS
PDBRAOK1D0	P	SC	G4?	S?	CARDAMINE DISSECTA	DIVIDED TOOTHWORT
PDBRAOKOE0	P	SC	G3	S?	CARDAMINE FLAGELLIFERA	BITTER CRESS
PMCYPO30L0	P	SC	G5	S?	CAREX AMPHIBOLA	NARROWLEAF SEDGE
PMCYPO30P0	P	SC	G3	S?	CAREX AMPLISQUAMA	FORT MOUNTAIN SEDGE
PMCYPO3E20	P	SC	G4	S?	CAREX APPALACHICA	APPALACHIAN SEDGE
PMCYPO31E0	P	SC	G4	S?	CAREX AUSTROCAROLINIANA	A SEDGE
PMCYPO31S0	P	NC	G3	S1	CAREX BILTMOREANA	BILTMORE SEDGE
PMCYPO32F3	P	SC	G5T4?	S?	CAREX CANESCENS SSP DISJUNCTA	SILVERY SEDGE
PMCYPO32R0	P	NC	G3	S1	CAREX CHAPMANII	CHAPMAN'S SEDGE
PMCYPO32W0	P	SC	G4	S1	CAREX COLLINSII	COLLINS' SEDGE
PMCYPO33K0	P	SC	G4	S?	CAREX DECOMPOSITA	CYPRESS-KNEE SEDGE
PMCYPO3420	P	SC	G5	S?	CAREX EBURNEA	EBONY SEDGE
PMCYPO3470	P	SC	G4?	S?	CAREX ELLIOTTII	ELLIOTT'S SEDGE
PMCYPO34X0	P	SC	G4G5	S1	CAREX FOLLICULATA	LONG SEDGE
PMCYPO35C0	P	SC	G5?	S?	CAREX GRACILESCENS	SLENDER SEDGE
PMCYPO35E0	P	SC	G5	S?	CAREX GRACILLIMA	GRACEFUL SEDGE
PMCYPO36P0	P	SC	G5	S?	CAREX JAMESII	NEBRASKA SEDGE
PMCYPO3EY0	P	SC	G2?	S?	CAREX MANHARTII	MANHART SEDGE
PMCYPO39P0	P	SC	G4	S?	CAREX OLIGOCARPA	EASTERN FEW-FRUIT SEDGE
PMCYPO3AA0	P	SC	G5	S1	CAREX PEDUNCULATA	LONGSTALK SEDGE
PMCYPO3AP0	P	SC	G5	S?	CAREX PLANTAGINEA	PLANTAIN-LEAVED SEDGE
PMCYPO3B10	P	SC	G4	S?	CAREX PRASINA	DROOPING SEDGE

RARE, THREATENED, & ENDANGERED SPECIES OF SOUTH CAROLINA

Key..... EL CLASS STATUS.. GRANK.. SRANK.. NAME..... COMMONNAME.....

PMCYPO3B50	P	SC	G5	S?	CAREX PROJECTA	NECKLACE SEDGE
PMCYPO3C30	P	SC	G5	S?	CAREX SCABRATA	ROUGH SEDGE
PMCYPO3D30	P	SC	G5	S?	CAREX STRICTA	TUSSOCK SEDGE
PMCYPO3EVO	P	SC	G4Q	S?	CAREX WOODII	PRETTY SEDGE
PDJUG01080	P	RC	G4	S1	CARYA MYRTICIFORMIS	NUTMEG HICKORY
PDSEROD0JO	P	RC	G5	S2	CASTILLEJA COCCINEA	SCARLET INDIAN-PAINTBRUSH
PDBER03010	P	SC	G5	S2	CAULOPHYLLUM THALICTROIDES	BLUE COHOSH
PDCUC05050	P	SC	G?	S?	CAYAPONIA BOYKINII	CAYAPONIA
PDERI08010	P	SC	G5	S?	CHAMAEDAPHNE CALYCULATA	LEATHERLEAF
PMPOA1D030	P	SC	G3?	S?	CHASMANTHIUM NITIDUM	SHINY SPIKEGRASS
PDSCR0F030	P	SC	G4	S?	CHELONE LYONII	PINK TURTLEHEAD
PDAST2A010	P	SC	G4G5	S1S2	CHRYSOMA PAUCIFLOSCULOSA	WOODY GOLDENROD
PD SAX07010	P	SC	G5	S1	CHRYSOSplenium AMERICANUM	AMERICAN GOLDEN-SAXIFRAGE
PD RAN07010	P	SC	G5	S?	CIMICIFUGA AMERICANA	MOUNTAIN BUGBANE
PDONA04020	P	SC	G5	S?	CIRCAEA LUTETIANA	SOUTHERN BROADLEAF ENCHANTER'S NIGHTSHADE
PDONA04021	P	SC	G5T5	S1	CIRCAEA LUTETIANA SSP CANADENSIS	INTERMEDIATE ENCHANTER'S NIGHTSHADE
PMCYPO4050	P	SC	G5	S1	CLADIUM MARISCOIDES	TWIG RUSH
PD FABOY010	P	RC	G4	S1	CLADRASTIS KENTUKEA	YELLOWWOOD
PD CYR01010	P	SC	G4G5	S?	CLIFTONIA MONOPHYLLA	BUCKWHEAT-TREE
PD LAM0C040	P	SC	G3G4	S?	COLLINSONIA VERTICILLATA	WHORLED HORSE-BALM
PD MCO1010	P	SC	G5	S?	COMPTONIA PEGREGRINA	SWEET FERN
PM LILOK020	P	SC	G4	S?	CONVALLARIA MONTANA	AMERICAN LILY-OF-THE-VALLEY
PD AST2L0AO	P	SC	G3G5	S?	COREOPSIS GLADIATA	SOUTHEASTERN TICKSEED
PD AST2L0GO	P	NC	G3	S1	COREOPSIS LATIFOLIA	BROAD-LEAVED TICKSEED
PD AST2L0TO	P	RC	G3	S2	COREOPSIS ROSEA	ROSE COREOPSIS
PD COR010L0	P	SC	G5?	S1	CORNUS RACEMOSA	STIFF DOGWOOD
PD EUP0H0C0	P	SC	G2G3	S?	CROTON ELLIOTTII	ELLIOTT'S CROTON
PD EUP0J020	P	SC	G5	S?	CROTONOPSIS LINEARIS	NARROWLEAF RUSHFOIL
PD RUB3M010	P	SC	G?	S?	CRUCIATA PEDEMONTANA	BEDSTRAW
PD CUS01080	P	SC	G5	S?	CUSCUTA CEPHALANTHI	DODDER; LOVE-VINE
PD CUS010W0	P	SC	G5	S?	CUSCUTA INDECORA	DODDER; LOVE-VINE
PD ASC050J0	P	SC	G4	S?	CYNANCHUM SCOPARIUM	LEAFLESS SWALLOW-WORT
PM CYP060U0	P	SC	G4	S1	CYPERUS DISTINCTUS	MARSHLAND FLATSEDGE
PM CYP061E0	P	SC	G3Q	S?	CYPERUS GRANITOPIHLUS	GRANITE-LOVING FLATSEDGE
PM CYP063H0	P	SC	G4?	S1	CYPERUS TETRAGONUS	PIEDMONT FLATSEDGE
PM ORC0Q0C0	P	SC	G5	S?	CYPripedium PUBESCENS	LARGE YELLOW LADY'S-SLIPPER
PPDRY07010	P	SC	G5	S?	CYSTOPTERIS BULBIFERA	BULBLET FERN
PPDRY07060	P	SC	G5	S?	CYSTOPTERIS PROTRUSA	LOWLAND BRITTLE FERN
PM POA200C0	P	SC	G3?	S?	DANTHONIA EPILIS	BOG OAT-GRASS
PD SCR0L010	P	SC	G4	S?	DASISTOMA MACROPHYLLA	MULLEIN FOXGLOVE
PD RAN0B0C0	P	SC	G5	S?	DELPHINIUM CAROLINIANUM	CAROLINA LARKSPUR
PM POA22090	P	SC	G5	S?	DESCHAMPSPIA FLEXUOSA	CRINKLED HAIRGRASS
PD FUM04030	P	SC	G5	S1	DICENTRA CUCULLARIA	DUTCHMAN'S BREECHES
PD FUM04040	P	SC	G4	S?	DICENTRA EXIMIA	WILD BLEEDING-HEART
PD LAM0F050	P	SC	G4G5	S1	DICERANDRA ODORATISSIMA	ROSE BALM
PM POA24010	P	SC	G4G5	S?	DICHANTHELIUM ACICULARE	BROOMSEDGE
PD DR001010	P	RC	G3	S1	DIONaea MUSCIPULA	VENUS' FLY-TRAP
PD BER04010	P	RC	G4	S1	DIPHYLLÉIA CYMOSA	UMBRELLA-LEAF
PPDRY090C0	P	SC	G5	S1	DIPLOAZIUM PYCNOCARPON	GLADE FERN
PD THY03020	P	SC	G4	S?	DIRCA PALUSTRIS	EASTERN LEATHERWOOD
PD PRI030B0	P	SC	G5	S?	DODECATHEON MEDIA	SHOOTING-STAR
PD BRA11060	P	NC	G3	S1	DRABA APRICA	OPEN-GROUND WHITLOW-GRASS
PD BRA11270	P	SC	G5	S?	DRABA REPTANS	CAROLINA WHITLOW-GRASS
PPDRY0A0F0	P	SC	G4	S1	DRYOPTERIS GOLDIANA	GOLDIE'S WOODFERN

RARE, THREATENED, & ENDANGERED SPECIES OF SOUTH CAROLINA

Key..... EL CLASS STATUS.. GRANK.. SRANK.. NAME..... COMMONNAME.....

PMCYPO3B50	P	SC	G5	S?	CAREX PROJECTA	NECKLACE SEDGE
PMCYPO3C30	P	SC	G5	S?	CAREX SCABRATA	ROUGH SEDGE
PMCYPO3D30	P	SC	G5	S?	CAREX STRICTA	TUSSOCK SEDGE
PMCYPO3EVO	P	SC	G4Q	S?	CAREX WOODII	PRETTY SEDGE
PDJUG01080	P	RC	G4	S1	CARYA MYRTICIFORMIS	NUTMEG HICKORY
PDSEROD0JO	P	RC	G5	S2	CASTILLEJA COCCINEA	SCARLET INDIAN-PAINTBRUSH
PDBER03010	P	SC	G5	S2	CAULOPHYLLUM THALICTROIDES	BLUE COHOSH
PDCUC05050	P	SC	G?	S?	CAYAPONIA BOYKINII	CAYAPONIA
PDERI08010	P	SC	G5	S?	CHAMAEDAPHNE CALYCULATA	LEATHERLEAF
PMPOA1D030	P	SC	G3?	S?	CHASMANTHIUM NITIDUM	SHINY SPIKEGRASS
PDSCR0F030	P	SC	G4	S?	CHELONE LYONII	PINK TURTLEHEAD
PDAST2A010	P	SC	G4G5	S1S2	CHRYSOMA PAUCIFLOSCULOSA	WOODY GOLDENROD
PD SAX07010	P	SC	G5	S1	CHRYSOSplenium AMERICANUM	AMERICAN GOLDEN-SAXIFRAGE
PD RAN07010	P	SC	G5	S?	CIMICIFUGA AMERICANA	MOUNTAIN BUGBANE
PDONA04020	P	SC	G5	S?	CIRCAEA LUTETIANA	SOUTHERN BROADLEAF ENCHANTER'S NIGHTSHADE
PDONA04021	P	SC	G5T5	S1	CIRCAEA LUTETIANA SSP CANADENSIS	INTERMEDIATE ENCHANTER'S NIGHTSHADE
PMCYPO4050	P	SC	G5	S1	CLADIUM MARISCOIDES	TWIG RUSH
PD FABOY010	P	RC	G4	S1	CLADRASTIS KENTUKEA	YELLOWWOOD
PD CYR01010	P	SC	G4G5	S?	CLIFTONIA MONOPHYLLA	BUCKWHEAT-TREE
PD LAM0C040	P	SC	G3G4	S?	COLLINSONIA VERTICILLATA	WHORLED HORSE-BALM
PD MCO1010	P	SC	G5	S?	COMPTONIA PEGREGRINA	SWEET FERN
PM LILOK020	P	SC	G4	S?	CONVALLARIA MONTANA	AMERICAN LILY-OF-THE-VALLEY
PD AST2L0AO	P	SC	G3G5	S?	COREOPSIS GLADIATA	SOUTHEASTERN TICKSEED
PD AST2L0GO	P	NC	G3	S1	COREOPSIS LATIFOLIA	BROAD-LEAVED TICKSEED
PD AST2L0TO	P	RC	G3	S2	COREOPSIS ROSEA	ROSE COREOPSIS
PD COR010L0	P	SC	G5?	S1	CORNUS RACEMOSA	STIFF DOGWOOD
PD EUP0H0C0	P	SC	G2G3	S?	CROTON ELLIOTTII	ELLIOTT'S CROTON
PD EUP0J020	P	SC	G5	S?	CROTONOPSIS LINEARIS	NARROWLEAF RUSHFOIL
PD RUB3M010	P	SC	G?	S?	CRUCIATA PEDEMONTANA	BEDSTRAW
PD CUS01080	P	SC	G5	S?	CUSCUTA CEPHALANTHI	DODDER; LOVE-VINE
PD CUS010W0	P	SC	G5	S?	CUSCUTA INDECORA	DODDER; LOVE-VINE
PD ASC050J0	P	SC	G4	S?	CYNANCHUM SCOPARIUM	LEAFLESS SWALLOW-WORT
PM CYP060U0	P	SC	G4	S1	CYPERUS DISTINCTUS	MARSHLAND FLATSEDGE
PM CYP061E0	P	SC	G3Q	S?	CYPERUS GRANITOPIHLUS	GRANITE-LOVING FLATSEDGE
PM CYP063H0	P	SC	G4?	S1	CYPERUS TETRAGONUS	PIEDMONT FLATSEDGE
PM ORC0Q0C0	P	SC	G5	S?	CYPripedium PUBESCENS	LARGE YELLOW LADY'S-SLIPPER
PPDRY07010	P	SC	G5	S?	CYSTOPTERIS BULBIFERA	BULBLET FERN
PPDRY07060	P	SC	G5	S?	CYSTOPTERIS PROTRUSA	LOWLAND BRITTLE FERN
PM POA200C0	P	SC	G3?	S?	DANTHONIA EPILIS	BOG OAT-GRASS
PD SCR0L010	P	SC	G4	S?	DASISTOMA MACROPHYLLA	MULLEIN FOXGLOVE
PD RAN0B0C0	P	SC	G5	S?	DELPHINIUM CAROLINIANUM	CAROLINA LARKSPUR
PM POA22090	P	SC	G5	S?	DESCHAMPSPIA FLEXUOSA	CRINKLED HAIRGRASS
PD FUM04030	P	SC	G5	S1	DICENTRA CUCULLARIA	DUTCHMAN'S BREECHES
PD FUM04040	P	SC	G4	S?	DICENTRA EXIMIA	WILD BLEEDING-HEART
PD LAM0F050	P	SC	G4G5	S1	DICERANDRA ODORATISSIMA	ROSE BALM
PM POA24010	P	SC	G4G5	S?	DICHANTHELIUM ACICULARE	BROOMSEDGE
PD DR001010	P	RC	G3	S1	DIONaea MUSCIPULA	VENUS' FLY-TRAP
PD BER04010	P	RC	G4	S1	DIPHYLLÉIA CYMOSA	UMBRELLA-LEAF
PPDRY090C0	P	SC	G5	S1	DIPLOAZIUM PYCNOCARPON	GLADE FERN
PD THY03020	P	SC	G4	S?	DIRCA PALUSTRIS	EASTERN LEATHERWOOD
PD PRI030B0	P	SC	G5	S?	DODECATHEON MEDIA	SHOOTING-STAR
PD BRA11060	P	NC	G3	S1	DRABA APRICA	OPEN-GROUND WHITLOW-GRASS
PD BRA11270	P	SC	G5	S?	DRABA REPTANS	CAROLINA WHITLOW-GRASS
PPDRY0A0F0	P	SC	G4	S1	DRYOPTERIS GOLDIANA	GOLDIE'S WOODFERN

RARE, THREATENED, & ENDANGERED SPECIES OF SOUTH CAROLINA

Key.....	EL	CLASS	STATUS..	GRANK..	SRANK..	NAME.....	COMMONNAME.....
PPDRY0AOHO	P	SC	G5	S?		DRYOPTERIS INTERMEDIA	EVERGREEN WOODFERN
PPDRY0A170	P	SC	G5	S?		DRYOPTERIS SPINULOSA	SPINULOSE WOOD-FERN
PDACA09040	P	SC	G4G5	S?		DYSCHORISTE HUMISTRATA	SWAMP DYSCHORISTE
PDAST38030	P	FE	G2G3	S1		ECHINACEA LAEVIGATA	SMOOTH CONEFLOWER
PMALI02050	P	SC	G3	S2		ECHINODORUS PARVULUS	DWARF BURHEAD
PMCYPO91EO	P	SC	G5	S?		ELEOCHARIS PALUSTRIS	SPIKE-RUSH
PMCYPO91N0	P	SC	G4G5	S?		ELEOCHARIS ROBBINSII	ROBBINS SPIKERUSH
PMCYPO91P0	P	SC	G5	S?		ELEOCHARIS ROSTELLATA	BEAKED SPIKERUSH
PMCYPO91Y0	P	SC	G5	S?		ELEOCHARIS VIVIPARA	VIVIPAROUS SPIKE-RUSH
PDER10C010	P	SC	G2G3	SH		ELLIOTTIA RACEMOSA	GEORGIA PLUME
PMPOA2H0E0	P	SC	G5	S?		ELYMUS RIPARIUS	WILD-RYE
PDTRAN0G010	P	RC	G5	S1		ENEMION BITERNATUM	FALSE RUE-ANEMONE
PMRC10050	P	SC	G4	S?		EPIDENDRUM CONOPSEUM	GREEN-FLY ORCHID
PMERI01080	P	SC	G2G4	S?		ERIOCAULON RAVENELII	RAVENEL'S PIPEWORT
PMERI010A0	P	SC	G4	S?		ERIOCAULON TEXENSE	PIPEWORT
PMPOA2Q040	P	SC	G2?	S?		ERIOCHLOA MICHauxII	CUPGRASS
PDAPI02032	P	SC	G4TUQ	S?		ERYNGIUM AQUATICUM VAR RAVENELII	MARSH ERYNGO
PDCEL05030	P	SC	G5	S1		EUONYMUS ATROPURPUREUS	WAHOO
PDAST3P0M0	P	SC	G5?	S?		EUPATORIUM FISTULOSUM	HOLLOW JOE-PYE WEED
PDAST3P1L0	P	SC	G3	S?		EUPATORIUM RESINOSUM	PINE BARRENS BONESET
PDAST3P1T3	P	SC	G5T?	S?		EUPATORIUM SESSILIFOLIUM VAR VASEYI	THOROUGHWORT
PMCYPOB0F0	P	NC	G2G3	S2		FIMBRISTYLIS PERPUSILLA	HARPER'S FIMBRISTYLIS
PMCYPOB0Q0	P	SC	G5	S?		FIMBRISTYLIS VAHLII	VAHL FIMBRY
PDOLE020C0	P	SC	G3	S?		FORESTIERA GODFREYI	
PDOLE02040	P	SC	G4G5	S1		FORESTIERA LIGUSTRINA	UPLAND SWAMP PRIVET
PDOLE020B0	P	SC	G4?	S1		FORESTIERA SEGREGATA	SOUTHERN PRIVET
PDHAM01020	P	RC	G3	S1		FOTHERGILLA MAJOR	MOUNTAIN WITCH-ALDER
PDGEN05030	P	RC	G5	S1		FRASERA CAROLINIENSIS	CAROLINA GENTIAN
PMRC16010	P	SC	G5	S?		GALEARIS SPECTABILIS	SHOWY ORCHIS
PDER10F050	P	SC	G5	S1		GAULTHERIA PROCUMBENS	TEABERRY
PDONA08020	P	SC	G5	S?		GAURA BIENNIS	BIENNIAL GAURA
PDERI0G010	P	SC	G5	S?		GAYLUSSACIA BACCATA	BLACK HUCKLEBERRY
PDERI0G050	P	SC	G4	S?		GAYLUSSACIA MOSIERI	WOOLLY-BERRY
PDGEN06070	P	SC	G3	S2		GENTIANA AUTUMNALIS	PINE BARREN GENTIAN
PMRC1TA070	P	SC	G4G5	S?		HABENARIA QUINQUESETA	LONG-HORN ORCHID
PDBOROGUO0	P	SC	G5	S?		HACKELIA VIRGINIANA	VIRGINIA STICKSEED
PDSTY01020	P	SC	G5	S1		HALESIA DIPTERA	TWO-WING SILVERBELL
PDSTY01040	P	SC	G?	S?		HALESIA PARVIFLORA	SMALL-FLOWERED SILVERBELL-TREE
PDAST4L070	P	RC	G3G4	S1		HELENIUM BREVIFOLIUM	SHORTLEAF SNEEZEWEEED
PDAST4L0E0	P	SC	G4	S?		HELENIUM PINNATIFIDUM	SOUTHEASTER SNEEZEWEEED
PDC1S02070	P	SC	G4	S?		HELIANTHEMUM GEORGIANUM	GEORGIA FROSTWEED
PDAST4N0M0	P	NC	G3	S?		HELIANTHUS GLAUCOPEPHLLUS	WHITE-LEAVED SUNFLOWER
PDAST4N0TO	P	SC	G4	S?		HELIANTHUS LAEVIGATUS	SMOOTH SUNFLOWER
PDAST4N1R0	P	SC	G4	S1		HELIANTHUS PORTERI	PORTER'S GOLDENEYE
PDAST4N1C0	P	FE	G2	S1		HELIANTHUS SCHWEINITZII	SCHWEINITZ'S SUNFLOWER
PMILI10010	P	FT	G3	S1		HELONIAS BULLATA	SWAMP-PINK
PDRAENO0E020	P	SC	G5	S?		HEPATICA ACUTILOBA	LIVERLEAF
PMPON03040	P	SC	G5	S?		HETERANTHERA RENIFORMIS	KIDNEYLEAF MUD-PLANTAIN
PDSAXOE0T0	P	SC	G4	S?		HEUCHERA PARVIFLORA	LITTLE-LEAVED ALUMROOT
PDARI03060	P	FT	G3	S2		HEXASTYLIIS MANIFLORA	DWARF-FLOWERED HEARTLEAF
PDPRI06010	P	SC	G4	S?		HOTTONIA INFFLATA	FEATHERFOIL
PDCIS03010	P	RC	G4	S1		HUDSONIA ERICOIDES	GOLDEN-HEATHER
PDHDR01080	P	SC	G4	S?		HYDRANGEA CINEREA	
PDAPI16010	P	SC	G5	S?		HYDROCOTYLE AMERICANA	AMERICAN WATER-PENNYWORT

RARE, THREATENED, & ENDANGERED SPECIES OF SOUTH CAROLINA

Key.....	EL	CLASS	STATUS..	GRANK..	SRANK..	NAME.....	COMMON.....
PDHYD07010	P	SC	G5	S1		HYDROLEA CORYMBOSA	CORYMB FIDDLELEAF
PDHYD08020	P	SC	G5	S1		HYDROPHYLLUM CANADENSE	BLUNT-LEAF WATERLEAF
PMIL115040	P	NC	G20	S2		HYMENOCALLIS CORONARIA	SHOALS SPIDER-LILY
PPHYMO10PO	P	SC	G1G2	S?		HYMENOPHYLLUM TAYLORIAE	TUNBRIDGE FERN
PPHYMO10HO	P	NC	G4G5	S1		HYMENOPHYLLUM TUNBRIGENSE	TUNBRIDGE FERN
PDCLU03010	P	RC	G2G3	S1		HYPERICUM ADPRESSUM	CREEPING ST. JOHN'S-WORT
PDCLU03050	P	SC	G3?	S?		HYPERICUM BUCKLEYI	BLUE RIDGE ST. JOHN'S-WORT
PDCLU03170	P	SC	G4	S?		HYPERICUM NITIDUM	CAROLINA ST. JOHN'S-WORT
PDQUO1020	P	SC	G4	S3		ILEX AMELEANCHIER	SARVIS HOLLY
PDBAL01090	P	SC	G5	S?		IMPAETIENS PALLIDA	PALE JEWEL-WEED
PDCONOA00U	P	SC	G3G5	S1?		IPOMOEA MACRORHIZA	LARGE-STEM MORNING-GLORY
PDCONOA1G0	P	SC	G5?	S?		IPOMOEA STOLONIFERA	BEACH MORNING-GLORY
PDPLO60G0	P	SC	G4G5	S?		IPOMOPSIS RUBRA	RED STANDING-CYPRESS
PMIRI090E0	P	SC	G4G5	S?		IRIS HEXAGONA	WALTER'S IRIS
PPISO01190	P	SC	G4?	S?		ISOETES CAROLINIANA	ENGELMANN'S QUILLWORT
PPISO010E0	P	FE	G1	S1		ISOETES MELANOSPORA	BLACK-SPORED QUILLWORT
PPISO010HO	P	SC	G3	S2		ISOETES PIEDMONTANA	PIEDMONT QUILLWORT
PPISO010J0	P	SC	G4	S1		ISOETES RIPARIA	RIVER BANK QUILLWORT
PPISO010PO	P	SC	G3G	S1		ISOETES VIRGINICA	VIRGINIA QUILLWORT
PMORC1F010	P	FT	G2G3	S1		ISOTRIA MEDEOLOIDES	SMALL WHORLED POGONIA
PDJUG02030	P	SC	G4	S?		JUGLANS CINEREA	BUTTERNUT
PMJUN01170	P	SC	G4	S?		JUNCUS GEORGIANUS	GEORGIA RUSH
PMJUN011C0	P	SC	G4	S?		JUNCUS GYMNOCARPUS	NAKED-FRUITED RUSH
PMJUN012P0	P	SC	G5	S?		JUNCUS SUBCAUDATUS	WOODS-RUSH
PGCUP05030	P	SC	G5	S?		JUNIPERUS COMMUNIS	GROUND JUNIPER
PDER1OK020	P	NC	G3	S1		KALMIA CUNEATA	WHITE-WICKY
PDAST5D050	P	SC	G3	S?		KRIGIA MONTANA	FALSE DANDELION
PMER102020	P	SC	G2G3	S?		LACHNOCAULON BEYRICHIANUM	SOUTHERN BOG-BUTTON
PDCLIS040F0	P	SC	G4G5	S?		LECHEA TORREYI	PIEDMONT PINWEED
PDSAXOL010	P	SC	G5?	S?		LEPUROPETALON SPATHULATUM	SOUTHERN LEPUROPETALON
PDAST5X040	P	SC	G3G4	S?		LIATRIS MICROCEPHALA	
PDCHR02010	P	SC	G4G5	S?		LICANIA MICHauxII	GOPHER-APPLE
PDAP119010	P	NC	G3	S1		LILAEOPSIS CAROLINENSIS	CAROLINA LILAEOPSIS
PMLIL1A030	P	SC	G5	S1?		LILIUM CANADENSE	CANADA LILY
PMLIL1A080	P	SC	G1G2	S?		LILIUM IRIDOLLAE	PANHANDLE LILY
PDLAU07020	P	FE	G2	S1		LINDERA MELISSIFOLIA	PONDBERRY
PDLAU07030	P	RC	G2	S?		LINDERA SUBCORIACEA	
PMORC1M030	P	SC	G5	S?		LIPARIS LILIIFOLIA	BOG SPICEBUSH
PMCYPOH040	P	SC	G4	S2		LIPOCARPHA MICRANTHA	LARGE TWAYBLADE
PMORC1N020	P	SC	G4	S?		LISTERA AUSTRALIS	DWARF BULRUSH
PMORC1N080	P	SC	G4	S?		LISTERA SMALLII	SOUTHERN TWAYBLADE
PDBROL0F0	P	SC	G4	S1		LITHOSPERMUM TUBEROSUM	KIDNEY-LEAF TWAYBLADE
PDLAU08010	P	SC	G3	S3		LITSEA AESTIVALIS	TUBEROUS GROMWELL
PDCAM0E050	P	SC	G2G3	S?		LOBELIA BOYKINII	PONDSPICE
PDCPR030A0	P	SC	G5?	S2		LONICERA FLAVA	BOYKIN'S LOBELIA
PDFAB2A1H2	P	SC	G5T3	S?		LOTUS UNIFOLIOLATUS VAR HELLERI	YELLOW HONEYSUCKLE
PDONA0BQ0	P	SC	G2G3	S?		LUDWIGIA SPATHULATA	CAROLINA BIRDFOOT-TREFOIL
PPLYC010S0	P	SC	G4	S1		LYCOPODIUM POROPHILUM	SPATULATE SEEDBOX
PPLYC01130	P	SC	G5	S1		LYCOPODIUM TRISTACHYUM	ROCK CLUBMOSS
PDLAMOX050	P	SC	G3	S?		LYCOPUS COKERI	DEEP-ROOT CLUBMOSS
PPSCHO2030	P	SC	G4	S1S2		LYGODIUM PALMATUM	CAROLINA BUGLEWEED
PDERIOR010	P	SC	G5	S1		LYONIA FERRUGinea	CLIMBING FERN
PDPRI07010	P	FE	G3	S1		LYSIMACHIA ASPERULIFOLIA	RUSTY LYONIA
PDPRI07070	P	RC	G3	S1		LYSIMACHIA FRASERI	ROUGH-LEAVED LOOSESTRIFE
							FRASER LOOSESTRIFE

RARE, THREATENED, & ENDANGERED SPECIES OF SOUTH CAROLINA

Key..... EL CLASS STATUS.. GRANK.. SRANK.. NAME..... COMMONNAME.....

PDLAMOY020	P	SC	G2G3	S?	MACBRIDEA CAROLINIANA	CAROLINA BIRD-IN-A-NEST
PDMAG020B0	P	SC	G?Q	S?	MAGNOLIA CORDATA	PIEDMONT CUCUMBER TREE
PDMAG02050	P	SC	G5	S?	MAGNOLIA MACROPHYLLA	BIGLEAF MAGNOLIA
PDMAG02070	P	RC	G4	S1	MAGNOLIA PYRAMIDATA	PYRAMID MAGNOLIA
PMILL1F020	P	SC	G5	S?	MELANTHUM VIRGINICUM	VIRGINIA BUNCHFLOWER
PDMNS05010	P	SC	G5	S?	MENISPERMUM CANADENSE	CANADA MOONSEED
PDCAROG0D0	P	NC	G1	SX	MINUARTIA GODFREYI	GODFREY'S STITCHWORT
PDCAROG0W0	P	SC	G4	S?	MINUARTIA UNIFLORA	ONE-FLOWER STITCHWORT
PD SAXON030	P	SC	G5	S?	MITELLA DIPHYLLO	TWO-LEAF BISHOP'S-CAP
PDLAM17050	P	SC	G5	S?	MONARDA DIDYMA	OSWEGO TEA
PDMON04020	P	RC	G3	S1	MONOTROPON ODO RATA	SWEET PINESAP
PMPOA480P0	P	SC	G?Q	S?	MUhlenbergia FILIPES	BENTGRASS; HAIRGRASS
PDHAL04090	P	RC	G3	S2	MYRIOPHYLLUM LAXUM	PIEDMONT WATER-MILFOIL
PMNAJ01020	P	SC	G5	S?	NAJAS FLEXILIS	
PMILL1L010	P	C/NC	G2	SH	NARTHecium AMERICANUM	BOG ASPHodel
PD SAN05010	P	SC	G4	S2	NESTRONIA UMBELLULA	NESTRONIA
PMAGA08060	P	SC	G3G5	S?	NOLINA GEORGIANA	GEORGIA BEARGRASS
PD NYS01020	P	SC	G4G5	S?	NYSSA OGECHE	OGECHEE TUPELO
PDONAOC0S0	P	SC	G5	S?	OENOTHERA LINIFOLIA	THREAD-LEAF SUNDROPS
PDONAOC100	P	SC	G5	S?	OENOTHERA PERENNIS	SMALL SUNDROPS
PPOPH02090	P	SC	G5	S?	OPHIOGLOSSUM PETIOLATUM	LONGSTEM ADDER'S-TONGUE FERN
PPOPH02080	P	SC	G5	S?	OPHIOGLOSSUM VULGATUM	ADDER'S-TONGUE
PDFAB5K020	P	SC	G3G4	S?	ORBEXIUM LUPINELLUM	SAMPSON SNAKEROOT; SCURF PEA
PDR0040F0	P	SC	G5	S?	OROBANCHE UNIFLORA	ONE-FLOWERED BROOMRAPE
PD API11K040	P	SC	G5	S?	OSMORHIZA CLAYTONII	HAIRY SWEET-CICELY
PD API11L010	P	FE	G2	S1	OXYPOLIS CANBYI	CANBY'S DROPWORT
PD API11L070	P	SC	G3	S?	OXYPOLIS TERNATA	PIEDMONT COWBANE
PDBUX02010	P	RC	G4G5	S1	PACHYSANDRA PROCUMBENS	ALLEGHENY-SPURGE
PDARA09010	P	RC	G4	S2S3	Panax QUINQUEFOLIUS	AMERICAN GINSENG
PD SAXOP010	P	RC	G4	S1	PARNASSIA ASARIFOLIA	KIDNEYLEAF GRASS-OF-PARNASSUS
PD SAXOP020	P	NC	G3	S1S2	PARNASSIA CAROLINIANA	CAROLINA GRASS-OF-PARNASSUS
PD SAXOP060	P	RC	G3G4	S2	PARNASSIA GRANDIFOLIA	LARGE-LEAVED GRASS-OF-PARNASSUS
PD CAROL010	P	SC	G3	S?	PARONYCHIA AMERICANA	AMERICAN NAILWORT
PD AST6V080	P	SC	G3Q	S?	PARTHENIUM RADFORDEII	RADFORD'S FEVER-FEW
PMPOA4PC30	P	SC	G5	S?	PASPALUM BIFIDUM	BEAD-GRASS
PPADIOH020	P	SC	G5	S1	PELLAEA ATROPURPUREA	PURPLE-STEM CLIFF-BRAKE
PMARAOE020	P	SC	G3G4	S?	PELTANDRA SAGITTIFOLIA	SPOON-FLOWER
PD HYDOCOFO	P	SC	G5	S1	PHACELIA BIPINNATIFIDA	FERNLEAF PHACELIA
PD HDR090C0	P	SC	G5	S1	PHILADELPHUS HIRSUTUS	STREAMBANK MOCK-ORANGE
PDLAM1G060	P	SC	G4G5	S?	PHYSOSTEGIA LEPTOPHYLLA	SLENDER-LEAVED DRAGON-HEAD
P DER110020	P	SC	G3	S?	PIERIS PHILLYREIFOLIA	CLIMBING FETTER-BUSH
PD URT07010	P	SC	G5	S?	PILEA FONTANA	SPRINGS CLEARWEED
PD RUB1E010	P	SC	G3G5	S1	PINCKNEYA PUBENS	HAIRY FEVER-TREE
PD AST7B070	P	SC	G4	S?	PITYOPSIS PINAFOLIA	PINE-LEAVED GOLDEN ASTER
PD PLN02140	P	SC	G2	S?	PLANTAGO SPARSIFLORA	PINELAND PLANTAIN
PM ORC1Y0C0	P	SC	G4	S2	PLATANThERA INTEGRA	YELLOW FRINGELESS ORCHID
PM ORC1Y0D0	P	NC	G2	S1	PLATANThERA INTEGRILABIA	WHITE FRINGELESS ORCHID
PM ORC1Y0E0	P	SC	G5	S1	PLATANThERA LACERA	GREEN-FRINGE ORCHIS
PM ORC1Y0L0	P	RC	G5	S?	PLATANThERA PERAMOENA	PURPLE FRINGELESS ORCHID
PM LI L2E010	P	SC	G4	S?	PLEA TENUIFOLIA	RUSH FALSE-ASPHodel
PM POA4Z040	P	SC	G4?	S?	POA ALSODES	BLUE-GRASS
PD PGL020N0	P		G3		POLYGALA HOOKERI	
PD PGL02110	P	SC	G5	S1S2	POLYGALA NANA	DWARF MILKWORT
PD PGL02180	P	SC	G5	S1	POLYGALA PAUCIFOLIA	GAY-WING MILKWORT

RARE, THREATENED, & ENDANGERED SPECIES OF SOUTH CAROLINA

Key.....	EL	CLASS	STATUS..	GRANK..	SRANK..	NAME.....	COMMONNAME.....
PMORC24010	P	SC	G4G5	S?	PONTHIEVA RACEMOSA		SHADOW-WITCH ORCHID
PDPOR060H0	P	SC	G3	S?	PORTULACA SMALLII		SMALL'S PURSLANE
PDPOR060L0	P	SC	G5	S1	PORTULACA UMBRATICOLA		WING-PODED PURSLANE
PMPTO03050	P	SC	G3G4	S1	POTAMOGETON CONFERTIVOIDES		ALGAE-LIKE PONDWEED
PMPTO03080	P	SC	G5	S?	POTAMOGETON FOLIOSUS		LEAFY PONDWEED
PPPSI01020	P	SC	G5	S1S2	PSILOTUM NUDUM		WHISK FERN
PMORC27010	P	SC	G2G3	S2	PTEROGLOSSASPIS ECRISTATA		CRESTED FRINGED ORCHID
PDPI11Y040	P	FE	G2	S1	PTILIMUM NODOSUM		HARPERELLA
PDLMN090	P	RC	G3G5	S1	PYCANTHEMUM MONTANUM		SINGLE-HAIRED MOUNTAIN-MINT
PDDIA03010	P	NC	G4	S1	PYXIDANTHERA BARBULATA		FLOWERING PIXIE-MOSS
PDDIA03012	P	SC	G4T4	S?	PYXIDANTHERA BARBULATA VAR BARBULATA		WELL'S PIXIE MOSS
PDDIA03020	P	NC	G2Q	S2	PYXIDANTHERA BREVIFOLIA		WELL'S PIXIE-MOSS
PDFAG05060	P	SC	G5	S1	QUERCUS BICOLOR		SWAMP WHITE OAK
PDFAG050F0	P	SC	G5	S1	QUERCUS DURANDII		DURAND'S WHITE OAK
PDFAG050Q0	P	SX	G4	SX	QUERCUS GEORGIANA		GEORGIA OAK
PDFAG051H0	P	SC	G5	S?	QUERCUS MYRTIFOLIA		MYRTLE-LEAF OAK
PDFAG051M0	P	SC	G2G3	S3	QUERCUS OGLETHORPENSIS		OGLETHORPE'S OAK
PDANOL0U0	P	SC	G5	S?	RANUNCULUS FASCICULARIS		EARLY BUTTERCUP
PDAST7Z030	P	SC	G5	S?	RATIBIDA PINNATA		GRAY-HEAD PRAIRIE CONEFLOWER
PMARE08010	P	SC	G4	S?	RHAPIDOPHYLLUM HYSTRIX		NEEDLE PALM
PDMLSOH020	P	SC	G3	S2	RHEXIA ARISTOSA		AWNED MEADOWBEAUTY
PDER1150C0	P	SC	G5	S?	RHODODENDRON CATAWBIENSE		CATAWBA RHODODENDRON
PDER1150F0	P	SC	G3	S2	RHODODENDRON FLAMMEUM		PIEDMONT AZALEA
PDANA08070	P	FE	G2	SX	RHUS MICHAUXII		MICHAUX'S SUMAC
PMCYPON010	P	SC	G5	S1	RHYNCHOSPORA ALBA		WHITE BEAKRUSH
PMCYPON02	P	SC	G5T3?	S?	RHYNCHOSPORA GLOBULARIS VAR PINETORUM		BEAKRUSH
PMCYPON100	P	SC	G3	S?	RHYNCHOSPORA HARPERI		HARPER BEAKRUSH
PMCYPON170	P	SC	G4	S?	RHYNCHOSPORA INUNDATA		DROWNED HORNEDRUSH
PMCYPON1C0	P	SC	G3G4	S?	RHYNCHOSPORA MACRA		BEAK RUSH
PMCYPON1N0	P	SC	G4	S?	RHYNCHOSPORA OLIGANTHA		FEW-FLOWERED BEAKED-RUSH
PMCYPON1P0	P	SC	G3	S?	RHYNCHOSPORA PALLIDA		PALE BEAKRUSH
PMCYPON280	P	SC	G4	S?	RHYNCHOSPORA STENOPHYLLA		CHAPMAN BEAKRUSH
PMCYPON2D0	P	SC	G4	S?	RHYNCHOSPORA TRACYI		TRACY BEAKRUSH
PDGRO020G0	P	FT	G1	S1	RIBES ECHINELLUM		MICCOSUEKEE GOOSEBERRY
PDRAZ270J0	P	SC	G5	S?	RORIPPA SESSILIFLORA		STALKLESS YELLOWCRESS
PDAST85070	P	NC	G2	S1	RUBDECKIA HELIOPSISDIS		SUN-FACING CONEFLOWER
PDAST850Q0	P	SC	G3G5	S1	RUBDECKIA MOLLIS		SOFT-HAIR CONEFLOWER
PDACAOJ025	P	SC	G5T?	S?	RUELLIA CAROLINIENSIS SSP CILIOSA		A PETUNIA
PDACAOJ0G2	P	SC	G5T2	S?	RUELLIA PEDUNCULATA SSP PINETORUM		
PDACAOJOK0	P	SC	G4G5	S?	RUELLIA STREPENS		LIMESTONE PETUNIA
PDEGENOF030	P	SC	G4G5	S?	SABATIA BARTRAMI		BARTRAM'S ROSE-GENTIAN
PDEGENFOE0	P	RC	G3	S1	SABATIA KENNEDYANA		PLYMOUTH GENTIAN
PDRAHADD010	P	SC	G4	S2	SAGERETIA MINUTIFLORA		TINY-LEAVED BUCKTHORN
PMAL104090	P	FE	G1	S1	SAGITTARIA FASCICULATA		BUNCHED ARROWHEAD
PMAL1040A4	P	SC	G5T?	S?	SAGITTARIA GRAMINEA VAR WEATHERBIANA		GRASSLEAF ARROWHEAD
PMAL1040E0	P	SC	G3G4	S2	SAGITTARIA ISOETIFORMIS		SLENDER ARROW-HEAD
PDROS1L020	P	SC	G5	S?	SANGUISORBA CANADENSIS		CANADA BURNET
PDPI1Z0L0	P	SC	G4	S1	SANICULA TRIFOLIATA		LARGE-FRUITED SANICLE
PDSAR02080	P	SC	G3	S1	SARRACENIA RUBRA		SWEET PITCHER-PLANT
PDSAR02082	P	FE	G3T1	S?	SARRACENIA RUBRA SSP JONESII		MOUNTAIN SWEET PITCHER-PLANT
PDSAXOU090	P	SC	G3	S1	SAXIFRAGA CAREYANA		CAREY SAXIFRAGE
PDSAXOU100	P	SC	G5	S?	SAXIFRAGA MICRANTHIDIFOLIA		LETTUCE-LEAF SAXIFRAGE
PDSCH01020	P	SX	G4	SX	SCHISANDRA GLABRA		BAY STARVINE
PMLIL1S020	P	SC	G4	S1	SCHOENOLIRION CROCEUM		YELLOW SUNNYBELL

RARE, THREATENED, & ENDANGERED SPECIES OF SOUTH CAROLINA

Key..... EL CLASS STATUS.. GRANK.. SRANK.. NAME..... COMMONNAME.....

PDSQR1Q010	P	FE	G2	S2	SCHWALBEA AMERICANA	CHAFFSEED
PMCYPOQ061	P	SC	G5?	S?	SCIRPUS CESPITOSUS VAR CALLOSUS	TUSSOCK BULRUSH
PMCYPOQ1P0	P	SC	G?	S?	SCIRPUS ERISMANAE	A BULRUSH
PMCYPOQ0LO	P	SC	G3G4	S?	SCIRPUS ETUBERCOLATUS	CANBY BULRUSH
PMCYPOQ0R0	P		G2	S?	SCIRPUS HALLII	HALL'S BULRUSH
PMCYPOQ1G0	P	SC	G4G5	S?	SCIRPUS SUBTERMINALIS	WATER BULRUSH
PMCYPOR010	P	SC	G4	S1S2	SCLERIA BALDWINII	BALDWIN NUTRUSH
PDLAM1U110	P	SC	G4	S?	SCUTELLARIA PARVULA	SMALL SKULLCAP
PDCRAOA130	P	NC	G3	S2	SEDUM PUSILLUM	GRANITE ROCK STONECROP
PDASTB8H220	P	RC	G2?	S2	SENECIO MILLEFOLIUM	PIEDMONT RAGMORT
PDDIA04010	P	NC	G2	S2	SHORTIA GALACIFOLIA	OCONEE-BELLS
PDSTOG040	P	SC	G4G5	S?	SIDEROKYTON LANUGINOSUM	GUM BUMELIA
PDCAROU180	P	SC	G3	S?	SILENE OVATA	OVATE CATCHFLY
PDASTBLOG0	P	SC	G4G5	S1	SILPHIUM TEREBINTHINACEUM	PRairie ROSINWEED
PMIRID1D0	P	FE	G2	S?	SISYRINCHIUM DICHTOMUM	REFLEXED BLUE-EYED GRASS
PDASTBP050	P	SC	G4	S?	SOLIDAGO AURICULATA	EARED GOLDENROD
PDASTBP060	P	SC	G5	S1	SOLIDAGO BICOLOR	WHITE GOLDENROD
PDASTBP1F0	P	SC	G5	S?	SOLIDAGO PTARMICOIDES	PRairie GOLDENROD
PDASTBP1M0	P	SC	G5	S1	SOLIDAGO RIGIDA	PRairie GOLDENROD
PDASTBP1U0	P			S1	SOLIDAGO SIMULANS	
PDASTBP250	P	NC	G3	S1	SOLIDAGO Verna	SPRING-FLOWERING GOLDENROD
PMORC2B0E0	P	SC	G4G5	S1	SPIRANTHES LACINIATA	LACE-LIP LADIES'-TRESSES
PMORC2B0G0	P	SC	G3	S?	SPIRANTHES LONGILABRIS	GIANT SPIRAL LADIES'-TRESSES
PMPOA5V140	P	SC	G3	SR	SPOROBOLUS SP 1	CAROLINA DROPSeed
PMPOA5V0U0	P	NC	G1G2	S?	SPOROBOLUS TERETIFOLIUS	WIRE-LEAVED DROPSeed
PDLAM1X0AO	P	SC	G3	S1	STACHYS CLINGMANII	CLINGMAN'S HEDGE-NETTLE
PDLAM1X0Z4	P	SC	G5TU	S1	STACHYS TENUIFOLIA VAR LATIDENS	BROAD-TOOTHED HEDGE-NETTLE
PDTHC06020	P	RC	G4	S2	STEWARTIA OVATA	MOUNTAIN CAMELLIA
PDEUP1B010	P	SC	G4G5	S1	STILLINGIA AQUATICA	CORKWOOD
PDCONOHO52	P	SC	G4T2T3	S1	STYLIUM PICKERINGII VAR PICKERINGII	PICKERING'S MORNING-GLORY
PMERI03010	P	SC	G5	SH	SYNGONANTHUS FLAVIDULUS	YELLOW PIPEWORT
PMMAR03010	P	SC	G3G5	S?	THALIA DEALBATA	POWDERY THALIA
PDRANOMOMO	P	SC	G1G2	S?	THALICTRUM SUBROTUNDUM	RECLINED MEADOW-RUE
PDFAB3Z2060	P	SC	G3G4	S?	Thermopsis mollis	SOFT-HAIRED THERMOPSIS
PDSAX10013	P	SC	G5T5	S?	TIARELLA CORDIFOLIA VAR CORDIFOLIA	HEART-LEAVED FOAM FLOWER
PMLIL1Y020	P	SC	G3	S?	TOFIELDIA GLabra	WHITE FALSE-ASPHodel
PMPOA61030	P	SC	G5?	S?	Torreyaochloa pallida	PALE MANNA GRASS
PMCOM0B0Q0	P	SC	G5	S?	TRADESCANTIA VIRGINIANA	VIRGINIA SPIDERWORT
PDRANON010	P	SC	G5	S?	TRAUTVETTERIA CAROLINENSIS	CAROLINA TASSEL-RUE
PDAP12C010	P	SC	G4G5	S?	TREPOCARPUS AETHUSAe	AETHUSA-LIKE TREPOCARPUS
PPHYMO2040	P	RC	G4	S1	TRICHOMANES BOSCHIANUM	BRISTLE-FERN
PPHYMO20K0	P	RC	G4G5	S2	TRICHOMANES PETERSII	DWARF FILMY-FERN
PDLAM220G0	P	SC	G2	S?	TRICOSTEMA SP 1	DUNE BLUECURLS
PMPOA65040	P	SC	G3?	S?	TRIDENS CAROLINIANUS	CAROLINA FLUFF GRASS
PMLIL20090	P	SC	G3	S?	TRILLIUM DISCOLOR	FADED TRILLIUM
PMLIL200E0	P	SC	G5	S?	TRILLIUM GRANDIFLORUM	LARGE-FLOWER TRILLIUM
PMLIL200G0	P	NC	G3	S1	TRILLIUM LANCIFOLIUM	NARROW-LEAVED TRILLIUM
PMLIL200N0	P	FE	G1	S1	TRILLIUM PERSISTENS	PERSISTENT TRILLIUM
PMLIL200Q0	P	SC	G3	S?	TRILLIUM PUSILLUM	LEAST TRILLIUM
PMLIL200Q2	P	NC	G3T2	S1	TRILLIUM PUSILLUM VAR PUSILLUM	LEAST TRILLIUM
PMLIL200S0	P	FE	G2	S1	TRILLIUM RELIQUUM	RELICT TRILLIUM
PMLIL20130	P	SC	G3	S?	TRILLIUM RUGELII	SOUTHERN NODDING TRILLIUM
PMLIL200V0	P	SC	G3	S?	TRILLIUM SIMILE	A TRILLIUM
PMLIL200Z0	P	SC	G5	S?	TRILLIUM UNDULATUM	PAINTED TRILLIUM

RARE, THREATENED, & ENDANGERED SPECIES OF SOUTH CAROLINA

Key..... EL CLASS STATUS.. GRANK.. SRANK.. NAME..... COMNAME.....

PMORC2F050	P	SC	G4	S2	TRIPHORA TRIANTHOPHORA	NODDING POGONIA
PDUKT0010	P	SC	G4G5	S?	URTICA CHAMAEDRYOIDES	WEAK NETTLE
PDLNT2050	P	SC	G3G5	S1	UTRICULARIA FLORIDANA	FLORIDA BLADDERWORT
PDLNT20F0	P	SC	G4	S1	UTRICULARIA OLIVACEA	PIEDMONT BLADDERWORT
PDERI180A2	P	NC	G4G5T1	S1	VACCINIUM CRASSIFOLIUM SSP SEMPERVIRENS	RAYNER'S BLUEBERRY
PMHYDOA010	P	SC	G5	S?	VALLISNERIA AMERICANA	EEL-GRASS
PDVVERONOW0	P	SC	G5	S?	VERBENA SIMPLEX	NARROW-LEAVED VERVAIN
PDSCR21010	P	SC	G5	S?	VERONICASTRUM VIRGINICUM	CULVER'S-ROOT
PDVI0040E0	P	SC	G5	S?	VIOLA CONSPERSA	AMERICAN BOG VIOLET
PDVI0041R2	P	SC	G5TU	S?	VIOLA PUBESCENS VAR LEIOPARPON	YELLOW VIOLET
PDVI0042D0	P	SC	G5	S?	VIOLA TRIPARTITA	THREE-PARTED VIOLET
PDVI0042D2	P	SC	G5T?	S?	VIOLA TRIPARTITA VAR GLABERRIMA	THREE-PARTED VIOLET
PDVI0042D1	P	SC	G5T3?	S?	VIOLA TRIPARTITA VAR TRIPARTITA	THREE-PARTED VIOLET
PDROS1S030	P	RC	G2?	S2	WALDSTEINIA LOBATA	PIEDMONT STRAWBERRY
PMIL1L26010	P	SC	G4	S1	XEROPHYLLUM ASPHODELOIDES	EASTERN TURKEYBEARD
PMXYR01030	P	SC	G4G5	S?	XYRIS BREVIFOLIA	SHORT-LEAVED YELLOW-EYED GRASS
PMXYR010T0	P	SC	G3	S?	XYRIS CHAPMANII	CHAPMAN'S YELLOW-EYED GRASS
PMXYR010H0	P	SC	G3	S?	XYRIS SCABRIFOLIA	HARPER'S YELLOW-EYED GRASS
PMXYR010N0	P	SC	G5	S?	XYRIS TORTA	TWISTED YELLOW-EYED-GRASS

PLANTS--NONVASCULAR

NBHEP05030	N		G?		ANEURA MAXIMA	
NBHEP0T030	N	SC	GH	S?	CHEILOLEJEUNEA EVANSII	
NBHEP1P070	N	SC	G4	S?	JUNGERMANNIA FOSSOMBRONIOIDES	
NBHEP1W080	N	SC	G1	S?	LOPHOCOLEA APPALACHIANA	
NBHEP2H040	N	SC	G1Q	S?	PELLIA APPALACHIANA	
NBHEP2M070	N	SC	G2	S?	PLAGIOCHILA CADUCILOBA	GORGE LEAFY LIVERWORT
NBHEP2M0PO	N	SC	G2	S?	PLAGIOCHILA SULLIVANTII	
NBMUS81040	N	SC	G2G3	S?	PLAGIOMNIUM CAROLINIANUM	MOUNTAIN WAVY-LEAF MOSS
NBHEP2Q0B0	N	SC	G1Q	S?	PORELLA JAPONICA SSP APPALACHIANA	
NBMUS9Q070	N	SC	G5	S?	RHIZOMNIUM APPALACHIANUM	LARGE-LEAVED MNIUM

OTHER

ORXXX00001	O	SC	G?	S?	COLONIAL WATERBIRD	COLONIAL WATERBIRD
OOXXX01103	O	SC	G?	S?	OUTCROP	OUTCROP
OWXXX01101	O	SC	G?	S?	WATERFALL	WATERFALL

C103353.00/C10

URS Greiner

C103353.01
6 February 1997

URS Greiner, Inc.
P.O. Box 31646 (33631-3416)
7650 W. Courtney Campbell Causeway
Tampa, Florida 33607-1462
Telephone: (813) 286-1711
Facsimile: (813) 287-8591
Offices in Principal Cities Nationwide

FLORIDA #AA C000901
FLORIDA #LC C000234

Ms. Michelle Taylor
South Carolina Department of Natural Resources
P.O. Box 167
Columbia, South Carolina 29202

Re: **Protected Species Information
Charleston and Berkeley Counties S.C.**

Dear Ms. Taylor,

Pursuant to our telephone conversation of today, please find below the names of the those quadrangle maps (areas) for which we are requesting information on known locations of plant and animal species listed as protected by the State of South Carolina or the Federal government.

Cainhoy, S.C.	Kittredge, S.C.
Charleston, S.C.	Ladson, S.C.
Fort Moultrie, S.C.	Mount Holly, S.C.
Huger, S.C.	North Charleston, S.C.
Johns Island, S.C.	

In addition to the above listed quadrangles, we would also ask that you include listings of state and federal protected species for both Charleston and Berkeley Counties, S.C. It is our understanding that for this information, you will invoice us \$10.00 per quadrangle provided and any additional fees required for the species listings for the two counties.

If you have any questions or need additional information, please call me at (813) 286-1711.

Sincerely,

URS Greiner, Inc.

Mark Easley

cc: Larry Setzler, SCSPA
Bill Fehring, URS Greiner

South Carolina Department of
Natural Resources



February 7, 1997

Mr. Mark Easley
URS Greiner
P.O. Box 31646
Tampa, FL 33631-3416

James A. Timmerman, Jr., Ph.D.
Director

W. Brock Conrad, Jr.
Deputy Director for
**Wildlife and
Freshwater Fisheries**

Re: Endangered species review for the Cainhoy, Charleston, Fort Moultrie, Huger, Johns Island, Kittredge, Ladson, Mount Holly, and North Charleston Quads

Dear Mr. Easley:

I have enclosed the computer generated maps of the above quads, a list attached to the maps on what the dots represent, a county list for Berkeley, Charleston, and Dorchester County, a key to aid in reading the lists, a new quad list that is current as of July 8, but is subject to change, a form for ordering quads in the future, and an invoice for the above quads. Refer to the enclosed maps to see what occurrences if any are in or near your proposed site.

Please keep in mind that this information is derived from our existing database, and we do not assume that it is complete. Areas not yet inventoried by our biologists may contain significant species or communities. Also, our data are always in need of updating because as natural populations change over time, species must be added, dropped, or reclassified.

Any report or publication that includes any of this data should cite the Heritage Trust Program of the South Carolina Department of Natural Resources. No location data is to be distributed to the general public (i.e. through newspapers, magazines, etc.) without permission from the South Carolina Department of Natural Resources.

Thank you for your interest in our program. If I can be of further assistance, please call me at 803-734-3917.

Sincerely,

Michelle Taylor
Data Manager
S.C. Heritage Trust

Rembert C. Dennis Building • 1000 Assembly St • P.O. Box 167 • Columbia, S.C. 29202 • Telephone: 803/734-3886
EQUAL OPPORTUNITY AGENCY

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(C10)

URS Greiner

C103353.01
27 February 1997

FLORIDA #AA C000901
FLORIDA #LC C000234

Ms. Michelle Taylor
South Carolina Department of Natural Resources
Rembert C. Dennis Building
1000 Assembly Street
Columbia, S.C. 29202

Re: **Protected Species Data Base**
Charleston and Berkeley Counties, South Carolina

Dear Ms. Taylor,

Pursuant to my recent telephone conversation with Ms. Kathy Boyle of your office, we would like to request from you a D-base file (on disk or tape) of the Heritage Trust Programs known locations of protected species within the area of the below listed quadrangle maps.

Cainhoy
Charleston
Fort Moultrie
Huger
Johns Island
Kittridge
Ladson
Mount Holly
North Charleston

Please note that this information is being requested as baseline data for the development of a National Environmental Policy Act (NEPA) document and, because of this, some of the information provided may be depicted within this public document.

In addition to providing us with the requested information, we would also ask that you contact Ms. Marie Butler of the National Forest Service at (803) 336-3248 and give her permission to release her protected species data base for the Francis Marion National Forest. We understand that her data base may be more up-to-date than the one provided by the Heritage Trust Program for areas within the Forest.

If you have any question, need additional information, or wish to discuss this issue, please call me at (813) 286-1711.

Sincerely,

URS Greiner, Inc.



Mark Easley

cc: Larry Setzler, SCSPA
 Bill Fehring, URS Greiner
 Marie Butler, NFS

South Carolina Department of Natural Resources



February 27, 1997

Mr. Mark Easley
URS Greiner
P.O. Box 31646
Tampa, FL 33631-3416

James A. Timmerman, Jr., Ph.D.
Director

W. Brock Conrad, Jr.
Deputy Director for
**Wildlife and
Freshwater Fisheries**

Re: Endangered species review for the Cainhoy, Charleston, Fort Moultrie, Huger, Johns Island, Kittredge, Ladson, Mount Holly, and North Charleston Quads

Dear Mr. Easley:

I have enclosed a disk with the above information in dbase format. I have also enclosed a county list for Berkeley, and Charleston County, and a key to aid in reading the lists.

Please keep in mind that this information is derived from our existing database, and
~~We do not assume that it is complete. Areas not yet inventoried by our biologists may~~

[REDACTED]

contain significant species or communities. Also, our data are always in need of updating because as natural populations change over time, species must be added, dropped, or reclassified.

Any report or publication that includes any of this data should cite the Heritage Trust Program of the South Carolina Department of Natural Resources. No location data is to be distributed to the general public (i.e. through newspapers, magazines, etc.) without permission from the South Carolina Department of Natural Resources.

Thank you for your interest in our program. If I can be of further assistance, please call me at 803-734-3917.

KEY

ELCODE - element code, indicating taxonomic class in cols 1 and 2:

AA - Animals, Amphibians
AB - Animals, Birds
AF - Animals, Fish
AM - Animals, Mammals
AR - Animals, Reptiles
I - Invertebrate Animals
PD - Plants, Dicots
PG - Plants, Gymnosperms
PM - Plants, Monocots
PP - Plants, Pteridophytes (ferns)
N - Non-vascular Plants

GRANK/SRANK - the Nature Conservancy rating of degree of endangerment:

G1 - Critically imperiled globally because of extreme rarity or because of some factor(s) making it especially vulnerable to extinction
G2 - Imperiled globally because of rarity or factor(s) making it vulnerable
G3 - Either very rare throughout its range or found locally in a restricted range, or having factors making it vulnerable
G4 - Apparently secure globally, though it may be rare in parts of its range
G5 - Demonstrably secure globally, though it may be rare in parts of its range
GH - Of historical occurrence throughout its range, with possibility of rediscovery
GX - Extinct throughout its range
G? - Status unknown

S1 - Critically imperiled state-wide because of extreme rarity or because of some factor(s) making it especially vulnerable to extirpation
S2 - Imperiled state-wide because of rarity or factor(s) making it vulnerable
S3 - Rare or uncommon in state
S4 - Apparently secure in state
S5 - Demonstrably secure in state
SA - Accidental in state (usually birds or butterflies that are far outside normal range)
SE - Exotic established in state
SH - Of historical occurrence in state, with possibility of rediscovery
SN - Regularly occurring in state, but in a migratory, non-breeding form
SR - Reported in state, but without good documentation
SX - Extirpated from state
S? - Status unknown

STATUS - legal status:

FE - Federal Endangered
FT - Federal Threatened
NC - Of Concern, National (unofficial - plants only)
RC - Of Concern, Regional (unofficial - plants only)
SE - State Endangered (official state list - animals only)
ST - State Threatened (official state list - animals only)
SC - Of Concern, State
SX - State Extirpated
PE/PT/C - Proposed or candidate for federal listing

All information is based on the existing S.C. Heritage Trust database, and we do not assume that it is complete. Areas not yet inventoried by our biologists may contain significant species or communities. Also, our data are always in need of updating because as natural populations change over time, species must be added, dropped, or reclassified.

RARE, THREATENED, AND ENDANGERED SPECIES OF BERKELEY COUNTY

	STATUS.....	RANK.....	SCIENTIFIC NAME.....	COMMON NAME.....
ANIMALS:				
FE	G3	S3	ACIPENSER BREVIROSTRUM	SHORTNOSE STURGEON
SE	G2G3	S1	AMBYSTOMA CINGULATUM	FLATWOODS SALAMANDER
SC	G5T5	S2S3	AMBYSTOMA TIGRINUM TIGRINUM	EASTERN TIGER SALAMANDER
SC	G5	S5	CLEMMYS GUTTATA	SPOTTED TURTLE
SE	G3G4	S2?	CORYNORHINUS RAFINESQUII	RAFINESQUE'S BIG-EARED BAT
SE	G5	S2	ELANOIDES FORFICATUS	AMERICAN SWALLOW-TAILED KITE
FT	G4	S2	HALIAEETUS LEUCOCEPHALUS	Bald Eagle
SC	G5T5	S3S4	NEOTOMA FLORIDANA FLORIDANA	EASTERN WOODRAT
SC	G5	S2	NERODIA FLORIDANA	FLORIDA GREEN WATER SNAKE
FE	G3	S2	PICOIDES BOREALIS	RED-COCKADED WOODPECKER
SC	G4	S1	RANA CAPITO	GOPHER FROG
SC	G5	S?	SEMINATRIX PYGAEA	BLACK SWAMP SNAKE
ST	G4	S3	STERNA ANTILLARUM	LEAST TERN
PLANTS:				
NC	G3	S1	AGRIMONIA INCISA	INCISED GROOVEBUR
SC	G4	S?	AMPHICARPUM MUEHLENBERGIANUM	BLUE MAIDEN-CANE
SC	G5T3T4	S?	ANDROPOGON GYRANS VAR STENOPHYLLUS	
NC	G2Q	S1	ASPLENUM HETERORESILIENS	WAGNER'S SPLEENWORT
SC	G5	S1S2	ASPLENUM RESILIENS	BLACK-STEM SPLEENWORT
SC	G3G5Q	S1	BACOPA CYCLOPHYLLA	COASTAL-PLAIN WATER-HYSSOP
SC	G4G5	S?	BURMANNIA BIFLORA	NORTHERN BURMANNIA
SC	G5?	S?	CALOPOGON BARBATUS	BEARDED GRASS-PINK
NC	G3	S1	CAREX CHAPMANII	CHAPMAN'S SEDGE
RC	G4	S1	CARYA MYRTICIFORMIS	NUTMEG HICKORY
RC	G5	S2	CASTILLEJA COCCINEA	SCARLET INDIAN-PAINTBRUSH
SC	G5	S?	CHAMAEDAPHNE CALYCOLATA	LEATHERLEAF
SC	G3?	S?	CHASMANTHUM NITIDUM	SHINY SPIKEGRASS
SC	G3G5	S?	COREOPSIS GLADIATA	SOUTHEASTERN TICKSEED
SC	G4?	S1	CYPERUS TETRAGONUS	PIEDMONT FLATESEDGE
SC	G4	S?	EPIDENDRUM CONOPSEUM	GREEN-FLY ORCHID
SC	G2G4	S?	ERIOCAULON RAVENELII	RAVENEL'S PIPERWORT
SC	G4TUQ	S?	ERYNGIUM AQUATICUM VAR RAVENELII	MARSH ERYNGO
SC	G4G5	S?	HABENARIA QUINQUESETA	LONG-HORN ORCHID
SC	G4	S?	HELENIUM PINNATIFIDUM	SOUTHEASTERN SNEEZEWEEED
SC	G4G5	S?	IRIS HEXAGONA	WALTER'S IRIS
FE	G2	S1	LINDERA MELISSIFOLIA	PONDBERRY
SC	G4	S?	LISTERA AUSTRALIS	SOUTHERN TWAYBLADE
SC	G3	S3	LITSEA AESTIVALIS	PONDSPICE
SC	G2G3	S?	LOBELIA BOYKINI	BOYKIN'S LOBELIA
SC	G5	S?	MELANTHUM VIRGINICUM	VIRGINIA BUNCHFLOWER
SC	G5	S?	MENISPERMUM CANADENSE	CANADA MOONSEED
RC	G3	S2	MYRIOPHYLLUM LAXUM	PIEDMONT WATER-MILFOIL
SC	G5	S?	OPHIOGLOSSUM PETIOLATUM	LONGSTEM ADDER'S-TONGUE FERN
FE	G2	S1	OXYPOLIS CANBYI	CANBY'S DROPWORT
SC	G3G4	S?	PELTANDRA SAGITTIFOLIA	SPoon-Flower
SC	G4G5	S?	PHYSOSTEGIA LEPTOPHYLLA	SLENDER-LEAVED DRAGON-HEAD
SC	G5	S?	PILEA FONTANA	SPRINGS CLEARWEED
SC	G2	S?	PLANTAGO SPARSIFLORA	PINELAND PLANTAIN
SC	G4	S2	PLATANTHERA INTEGRA	YELLOW FRINGELESS ORCHID
SC	G5	S1	PLATANTHERA LACERA	GREEN-FRINGE ORCHIS
SC	G4G5	S?	PONTHIEVA RACEMOSA	SHADOW-WITCH ORCHID
SC	G5	S?	POTAMOGETON FOLIOSUS	LEAFY PONDWEED
SC	G2G3	S2	PTEROGLOSSASPIS ECRISTATA	CRESTED FRINGED ORCHID
SC	G3	S2	RHEXA ARISTOSA	AWNED MEADOWBEAUTY
SC	G4	S?	RHYNCHOSPORA INUNDATA	DROWNED HORNEDRUSH
SC	G4	S?	RHYNCHOSPORA TRACYI	TRACY BEAKRUSH
NC	G2	S1	RUDBECKIA HELIOPSISDIS	SUN-FACING CONEFLOWER

SC	G3	S1	SARRACENIA RUBRA	SWEET PITCHER-PLANT
FE	G2	S2	SCHWALBEA AMERICANA	CHAFFSEED
SC	G4	S1S2	SCLERIA BALDWINII	BALDWIN NUTRUSH
SC	G4G5	S1	SPIRANTHES LACINIATA	LACE-LIP LADIES'-TRESSES
SC	G1G2	S?	THALICTRUM SUBROTUNDUM	RECLINED MEADOW-RUE
SC	G3	S?	TRILLIUM PUSILLUM	LEAST TRILLIUM
NC	G3T2	S1	TRILLIUM PUSILLUM VAR PUSILLUM	LEAST TRILLIUM
SC	G4	S2	TRIPHORA TRIANTHOPHORA	NODDING POGONIA
SC	G4G5	S?	XYRIS BREVIFOLIA	SHORT-LEAVED YELLOW-EYED GRASS

RARE, THREATENED, AND ENDANGERED SPECIES OF CHARLESTON COUNTY

STATUS.....GRANK.....SRANK.....SCIENTIFIC NAME.....COMMON NAME.....

ANIMALS:

SC	G4	S?	ACCIPITER COOPERII	COOPER'S HAWK
FE	G3	S3	ACIPENSER BREVIROSTRUM	SHORTNOSE STURGEON
SC	G5T5	S5	ACRIS CREPITANS CREPITANS	NORTHERN CRICKET FROG
SC	G3	S3	AIMOPHILA AESTIVALIS	BACHMAN'S SPARROW
SE	G2G3	S1	AMBYSTOMA CINGULATUM	FLATWOODS SALAMANDER
SC	G5T5	S2S3	AMBYSTOMA TIGRINUM TIGRINUM	EASTERN TIGER SALAMANDER
FT	G3	S3	CARETTA CARETTA	LOGGERHEAD
ST	G5	S3?	CHARADRIUS WILSONIA	WILSON'S PLOVER
SC	G5	S5	CLEMmys GUTTATA	SPOTTED TURTLE
SC	G5	S3?	CONDYLURA CRISTATA	STAR-NOSED MOLE
SE	G3G4	S2?	CORYNORHINUS RAFINESQUII	RAFINESQUE'S BIG-EARED BAT
SC	G5	S4	DENDROICA VIRENS	BLACK-THROATED GREEN WARBLER
SE	G5	S2	ELANOIDES FORFICATUS	AMERICAN SWALLOW-TAILED KITE
FT	G4	S2	HALIAEETUS LEUCOCEPHALUS	Bald EAGLE
SC	G5	S4	ICTINIA MISSISSIPPIENSIS	MISSISSIPPI KITE
SC	G5	S?	LASIURUS CINEREUS	HOARY BAT
SC	G3G4	S4	LIMNOTHLYPIS SWAINSONII	SWAINSON'S WARBLER
SC	G5	S?	MELANERPES ERYTHROCEPHALUS	RED-HEADED WOODPECKER
SC	G5	S4	MICROTUS PENNSYLVANICUS	MEADOW VOLE
SC	G5	S2	MICRURUS FULVIUS	EASTERN CORAL SNAKE
FE	G4	S1S2	MYCTERIA AMERICANA	WOOD STORK
ST	G3	S2S3	MYOTIS ASTRORIPARIUS	SOUTHEASTERN MYOTIS
SC	G5	S3S4	NEOTOMA FLORIDANA	EASTERN WOODRAT
SC	G5T5	S3S4	NEOTOMA FLORIDANA FLORIDANA	EASTERN WOODRAT
SC	G4	S1S2	OPHIASaurus COMPRESSUS	ISLAND GLASS LIZARD
SC	G4	S1S2	PELECANUS OCCIDENTALIS	BROWN PELICAN
SC	G5	SA	PHOCA VITULINA	HARBOR SEAL
FE	G3	S2	PICOIDES BOREALIS	RED-COCKADED WOODPECKER
ST	G5	S?	PLEGADIS FALCIELLUS	GLOSSY IBIS
ST	G5	S2	PSEUDOBANCHUS STRIATUS	DWARF SIREN
SC	G4	S1	RANA CAPITO	GOPHER FROG
SC	G5	S4	SCIURUS NIGER	EASTERN FOX SQUIRREL
SC	G5	S?	SEMINATRIX PYGAEA	BLACK SWAMP SNAKE
ST	G4	S3	STERNA ANTILLARUM	LEAST TERN
SC	G5	S4	TYTO ALBA	BARN-OWL
SC	G5	S3?	URSUS AMERICANUS	BLACK BEAR
FE	GH	SX	VERMIVORA BACHMANII	BACHMAN'S WARBLER

PLANTS:

NC	G3	S1	AGRIMONIA INCISA	INCISED GROOVEBUR
FT	G2	S1	AMARANTHUS PUMILUS	SEABEACH AMARANTH
SC	G5	S?	ANTHAENANTIA RUFIA	PURPLE SILKSCALE
RC	G3?	S1	ASCLEPIAS PEDICELLATA	SAVANNAH MILKWEED
SC	G4?	S?	BOTRYCHIUM LUNARIOIDES	WINTER GRAPE-FERN
SC	G5?	S?	CALOPOGON BARBATUS	BEARDED GRASS-PINK
SC	G5?	S4	CANNA FLACCIDA	BANDANA-OF-THE-EVERGLADES
SC	G4	S?	CAREX DECOMPOSITA	CYPRESS-KNEE SEDGE
SC	G3?	S?	CHASMANTHIUM NITIDUM	SHINY SPIKEGRASS
SC	G3G5	S?	COREOPSIS GLADIATA	SOUTHEASTERN TICKSEED
SC	G4?	S1	CYPERUS TETRAGONUS	PIEDMONT FLATESEDGE
RC	G3	S1	DIONaea MUSCIPULA	VENUS' FLY-TRAP
SC	G4G5	S?	DYSCHORISTE HUMISTRATA	SWAMP DYSCHORISTE
SC	G5	S?	ELEOCHARIS VIVIPARA	VIVIPAROUS SPIKE-RUSH
SC	G5?	S?	EUPATORIUM FISTULOSUM	HOLLOW JOE-PYE WEED
SC	G3	S?	FORESTIERA GODFREYI	LONG-HORN ORCHID
SC	G4G5	S?	HABENARIA QUINQUESETA	SOUTHEASTERN SNEEZEWEEED
SC	G4	S?	HELENIUM PINNATIFIDUM	LARGE-STEM MORNING-GLORY
SC	G3G5	S1?	IPOMOEa MACRORHIZA	

SC	G5?	S?	IPOMOEA STOLONIFERA	BEACH MORNING-GLORY
SC	G4G5	S?	IRIS HEXAGONA	WALTER'S IRIS
SC	G5?	S?	LEPUROPETALON SPATHULATUM	SOUTHERN LEPUROPETALON
SC	G4	S?	LISTERA AUSTRALIS	SOUTHERN TWAYBLADE
SC	G3	S3	LITSEA AESTIVALIS	PONDSPICE
SC	G2G3	S?	LOBELIA BOYKINI	BOYKIN'S LOBELIA
SC	G4	S1S2	LYGODIUM PALMATUM	CLIMBING FERN
RC	G3	S1	MONOTROPSSIS ODORATA	SWEET PINESAP
SC	G?Q	S?	MUHLENBERGIA FILIPES	BENTGRASS; HAIRGRASS
SC	G5	S?	OROBANCHUS UNIFLORA	ONE-FLOWERED BROOMRAPE
SC	G3G4	S?	PELTANDRA SAGITTIFOLIA	SPoon-Flower
SC	G4G5	S?	PHYSOSTEGIA LEPTOPHYLLA	SLENDER-LEAVED DRAGON-HEAD
SC	G3	S?	PIERIS PHILLYREIFOLIA	CLIMBING FETTER-BUSH
SC	G3G5	S1	PINCKNEYA PUBENS	HAIRY FEVER-TREE
SC	G4	S2	PLATANTHERA INTEGRA	YELLOW FRINGELESS ORCHID
SC	G5	S1S2	PSilotum NUDUM	WHISK FERN
SC	G2G3	S2	PTEROGLOSSASPIS ECRISTATA	CRESTED FRINGED ORCHID
SC	G3	S2	RHEXIA ARISTOSA	AWNED MEADOWBEAUTY
SC	G4	S?	RHYNCHOSPORA INUNDATA	DROWNED HORNERUSH
SC	G4	S2	SAGERETIA MINUTIFLORA	TINY-LEAVED BUCKTHORN
SC	G3	S1	SARRACENIA RUBRA	SWEET PITCHER-PLANT
SX	G4	SX	SCHISANDRA GLABRA	BAY STARVINE
FE	G2	S2	SCHWALBEA AMERICANA	CHAFFSEED
SC	G4	S1S2	SCLERIA BALDWINII	BALDWIN NUTRUSH
SC	G4G5	S1	SPIRANTHES LACINIATA	LACE-LIP LADIES'-TRESSES
SC	G5	SH	SYNGONANTHUS FLAVIDULUS	YELLOW PIPEWORT
SC	G3G5	S?	THALIA DEALBATA	POWDERY THALIA
SC	G4	S2	TRIPHORA TRIANTHOPHORA	NODDING POGONIA